

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 24, 2003, 12:11:26 ; Search time 116.507 seconds
(without alignments)
4917.436 Million cell updates/sec

Title: US-09-609-146-3
Perfect score: 1298
Sequence: 1 agggagagctcaggccttgg.....tttcagagctgactctctc 1298

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA.*
1: /cgn2_6/ptodata/2/ina/5A_COMB.seq.*
2: /cgn2_6/ptodata/2/ina/5B_COMB.seq.*
3: /cgn2_6/ptodata/2/ina/6A_COMB.seq.*
4: /cgn2_6/ptodata/2/ina/6B_COMB.seq.*
5: /cgn2_6/ptodata/2/ina/PCUS_COMB.seq.*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1241.6	95.7	1248	4	US-09-545-944-1
2	347.6	26.8	1535	4	US-09-668-680-12
3	346	26.7	1212	4	US-09-170-496D-113
4	346	26.7	1212	4	US-09-170-496D-223
5	151.2	11.6	1101	4	US-09-170-496D-209
6	149.6	11.5	1088	3	US-09-077-675A-6
7	149.6	11.5	1088	4	US-09-077-674-6
8	149.6	11.5	1101	4	US-09-016-434-1148
9	149.6	11.5	1101	4	US-09-170-496D-87
10	144.6	11.1	1063	3	US-09-077-675A-1
11	144.6	11.1	1063	4	US-09-077-674-1
12	134.8	10.4	1092	3	US-09-077-675A-15
13	134.8	10.4	1092	4	US-09-077-674-15
14	126.8	9.8	4080	4	US-09-016-434-1346
15	120.4	9.3	1122	3	US-09-077-675A-9
16	120.4	9.3	1122	4	US-09-077-674-9
17	117.6	9.1	836	3	US-09-077-675A-11
18	117.6	9.1	836	4	US-09-077-674-11
19	112.4	8.7	1029	3	US-09-077-675A-4
20	112.4	8.7	1029	4	US-09-077-674-4
21	112.4	8.7	1161	1	US-08-086-439C-2
22	112.4	8.7	1161	1	US-08-434-877-2
23	112.4	8.7	1367	3	US-08-475-742-3
24	112.4	8.7	1367	4	US-08-261-293-3
25	112.4	8.7	1370	1	US-08-056-051-1
26	112.4	8.7	1370	1	US-07-928-611-17
27	112.4	8.7	1370	2	US-08-487-811A-17

28	112.4	8.7	1370	3	US-09-060-694-17	Sequence 17, Appl
29	112.4	8.7	1370	4	US-09-378-074-17	Sequence 17, Appl
30	112.4	8.7	1370	5	PCT-US93-07370-17	Sequence 17, Appl
31	112.4	8.7	1466	1	US-08-056-051-3	Sequence 3, Appl
32	112.4	8.7	1466	1	US-07-928-611-19	Sequence 19, Appl
33	112.4	8.7	1466	2	US-08-487-811A-19	Sequence 19, Appl
34	112.4	8.7	1466	3	US-09-060-694-19	Sequence 19, Appl
35	112.4	8.7	1466	4	US-09-378-074-19	Sequence 19, Appl
36	112.4	8.7	1466	5	PCT-US93-07370-19	Sequence 19, Appl
37	112.4	8.7	1504	4	US-09-016-434-1276	Sequence 1276, Ap
38	112.4	8.7	1610	1	US-08-056-051-5	Sequence 5, Appl
39	112.4	8.7	1610	1	US-07-928-611-21	Sequence 21, Appl
40	112.4	8.7	1610	2	US-08-487-811A-21	Sequence 21, Appl
41	112.4	8.7	1610	3	US-09-060-694-21	Sequence 21, Appl
42	112.4	8.7	1610	4	US-09-378-074-21	Sequence 21, Appl
43	112.4	8.7	1610	5	PCT-US93-07370-21	Sequence 21, Appl
44	110	8.5	1529	3	US-08-858-876A-3	Sequence 3, Appl
45	110	8.5	1529	3	US-09-472-880-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1
US-09-545-944-1
; Sequence 1, Application US/09545944
; Patent No. 6461836
; GENERAL INFORMATION:
; APPLICANT: AMES, ROBERT
; APPLICANT: ELISHOURBAGY, NABIL
; APPLICANT: MICHALOVICH, DAVID
; APPLICANT: SARAU, HENRY
; APPLICANT: SHABON, USMAN
; APPLICANT: VAWTER, LISA
; TITLE OF INVENTION: MOLECULAR CLONING OF A 7TM RECEPTOR
; FILE REFERENCE: (AXOR34) AND SCREENING METHODS THEREOF
; CURRENT APPLICATION NUMBER: US/09/545,944
; CURRENT FILING DATE: 2000-04-10
; PRIOR APPLICATION NUMBER: US 09/435,384
; PRIOR FILING DATE: 1999-11-05
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 1248
; TYPE: DNA
; ORGANISM: HOMO SAPIENS
US-09-545-944-1

Query Match	95.7%	Score 1241.6;	DB 4;	Length 1248;
Best Local Similarity	99.7%	Pred. No. 2.1e-296;		
Matches 124;	Conservative	0;	Mismatches 4;	Indels 0;
Gaps	0;			
Qy	27	ATGTCAGGGATGGAAAACTTCAGAACTTCCTCGGATCTACACGAGAACTAGAAGAT	86	
Db	1	ATGTCAGGGATGGAAAACTTCAGAACTTCCTCGGATCTACACGAGAACTAGAAGAT	60	
Qy	87	CCATTCCAGAAACACCTTGAACAGCAGCAGGAGTATCTGGCTTCCTCTGCGGACCTCGG	146	
Db	61	CCATTCCAGAAACACCTTGAACAGCAGCAGGAGTATCTGGCTTCCTCTGCGGACCTCGG	120	
Qy	147	CGCAGCCACTTCTTCCTCCCGCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	206	
Db	121	CGCAGCCACTTCTTCCTCCCGCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	180	
Qy	207	ATTGGCAATGTCCTGGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGT	266	
Db	181	ATTGGCAATGTCCTGGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGT	240	
Qy	267	AACCTACTACCTTTCAGCCTGGGCTCTCTGACCTTCCTGGTCTGCTCTGCTCTGCTCTG	326	
Db	241	AACCTACTACCTTTCAGCCTGGGCTCTCTGACCTTCCTGGTCTGCTCTGCTCTGCTCTG	300	

```
QY 327 CTGAGGCTCTATGAGATGTGGCGCAACTACCCCTTTCTTGTGGGCGCCGTGGGCTGCTAC 386
Db 301 CTGGAGGCTCTATGAGATGTGGCGCAACTACCCCTTTCTTGTGGGCGCCGTGGGCTGCTAC 360
QY 387 TTCAGACGGCCCTCTTTGAGACCGGTGGTTCGCCCTCCATCCTCAGCATCACCACCGTC 446
Db 361 TTCAGACGGCCCTCTTTGAGACCGGTGGTTCGCCCTCCATCCTCAGCATCACCACCGTC 420
QY 447 AGCGTGGAGCGCTACGTGGCGCATCTTACACCCCGTTCGGCGCCAACTGGAGAGACACCGG 506
Db 421 AGCGTGGAGCGCTACGTGGCGCATCTTACACCCCGTTCGGCGCCAACTGGAGAGACACCGG 480
QY 507 CGCGGGCCCTCAGGATCTTCGGCATCTGCTGGGGCTTCTCCGTCGTCTTCTCCCTGCC 566
Db 481 CGCGGGCCCTCAGGATCTTCGGCATCTGCTGGGGCTTCTCCGTCGTCTTCTCCCTGCC 540
QY 567 AACACGAGCATCCATGGCATCAAGTTCACACTTCCCCCAATGGGTCCCTGTCGCCAGGT 626
Db 541 AACACGAGCATCCATGGCATCAAGTTCACACTTCCCCCAATGGGTCCCTGTCGCCAGGT 600
QY 627 TCGGCCACCTGTACGCTCATCAAGCCCATGTGGATCTACAATTTTCATCATCAGGTCACC 686
Db 601 TCGGCCACCTGTACGCTCATCAAGCCCATGTGGATCTACAATTTTCATCATCAGGTCACC 660
QY 687 TCCTTCTATTTACCTCTCCCATGCTGCTGCTCATCATCAGTGTCTCTACTACTCATGGCA 746
Db 661 TCCTTCTATTTACCTCTCCCATGCTGCTGCTCATCATCAGTGTCTCTACTACTCATGGCA 720
QY 747 CTCAGACTAAGAAAGACAAATCTCTTGAGGCGAGATGAAGGGAATGCAATATTTCAAAGA 806
Db 721 CTCAGACTAAGAAAGACAAATCTCTTGAGGCGAGATGAAGGGAATGCAATATTTCAAAGA 780
QY 807 CCCTGAGAAAATCAGTCAACAAGATGCTGTTGCTGTGCTTGTAGTGTGTTGCTATCTGT 866
Db 781 CCCTGAGAAAATCAGTCAACAAGATGCTGTTGCTGTGCTTGTAGTGTGTTGCTATCTGT 840
QY 867 TGGGCGCGGTTCCACATTCAGCCAGCTCTCTTCAGCTTTGTGAGGAGTGGAGTGAATCC 926
Db 841 TGGGCGCGGTTCCACATTCAGCCAGCTCTCTTCAGCTTTGTGAGGAGTGGAGTGAATCC 900
QY 927 CTGGCTGCTGTGTTCAACCTCGPCCATGTGGTGTGTCAGGTGTCCTTCTTACCTGAGCTCA 986
Db 901 CTGGCTGCTGTGTTCAACCTCGPCCATGTGGTGTGTCAGGTGTCCTTCTTACCTGAGCTCA 960
QY 987 GCTGTCAACCCCATTTATATAACCTACTGTCTCGCCGCTTCCAGGCGAGCATTTCCAGAAT 1046
Db 961 GCTGTCAACCCCATTTATATAACCTACTGTCTCGCCGCTTCCAGGCGAGCATTTCCAGAAT 1020
QY 1047 GTGATCTCTCTTTCCACAAACAGTGGGACTCCCGCATGACCCAGTTGGCCACCTGCC 1106
Db 1021 GTGATCTCTCTTTCCACAAACAGTGGGACTCCCGCATGACCCAGTTGGCCACCTGCC 1080
QY 1107 CAGCGAAACATCTTCTGACAGAAATGCCACTTTGTGGAGTGCACCGAAGATATAGGTGCC 1166
Db 1081 CAGCGAAACATCTTCTGACAGAAATGCCACTTTGTGGAGTGCACCGAAGATATAGGTGCC 1140
QY 1167 CAATTCCTATGTGTCAGTTCATCCATGCAACCTCTCACCTCCCAACAGCCCTCTCTAGTGA 1226
Db 1141 CAATTCCTATGTGTCAGTTCATCCATGCAACCTCTCACCTCCCAACAGCCCTCTCTAGTGA 1200
QY 1227 CAGATGTCAAGAAACAAACTATCAAGCTTCCACTTTTAAACAAACCTGA 1274
Db 1201 CAGATGTCAAGAAACAAACTATCAAGCTTCCACTTTTAAACAAACCTGA 1248
```

RESULT 2

US-09-668-680-12
; Sequence 12, Application US/09668680
; Patent No. 6436703
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Zhou, Ping

```
; APPLICANT: Asundi, Vinod  
; APPLICANT: Zhang, Jie  
; APPLICANT: Wang, Jian-Rui  
; APPLICANT: Xue, Aidong J.  
; APPLICANT: Xu, Chongjun  
; APPLICANT: Drmanac, Radoje T.  
; TITLE OF INVENTION: No. 6436703el Nucleic Acids and  
; FILE REFERENCE: 790CIP2A  
; CURRENT APPLICATION NUMBER: US/09/668,680  
; CURRENT FILING DATE: 2000-09-22  
; PRIOR APPLICATION NUMBER: 09/649,167  
; PRIOR FILING DATE: 2000-08-23  
; PRIOR APPLICATION NUMBER: 09/540,217  
; PRIOR FILING DATE: 2000-03-31  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: pc_fla_genes Version 2.0  
; SEQ ID NO 12  
; LENGTH: 1535  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(1338)  
; US-09-668-680-12
```

Query Match 26.8%; Score 347.6; DB 4; Length 1535;
Best Local Similarity 62.1%; Pred. No. 2.7e-76;
Matches 591; Conservative 0; Mismatches 319; Indels 42; Gaps 1;

```
QY 138 GGACCTCGGCGCAGCCACTTCTTCCCTCCCGTGTCTGTGTGTATGTGCAATTTTGTG 197
Db 214 GGGCCCCAGCAGACAGAGCTGTTCATGCCCATCTGTGCCACATACCTGCTGATCTTCGTG 273
QY 198 GTGGGGTCTATTGGCAATGCTCGTGTGCTGTGATCTCAGCAGCAGGCTATGAAG 257
Db 274 GTGGGGCTGTGGGCAATGGGCTGACCTGTCTGTGTCATCTCGCGCCAGAGGCGCATCGCG 333
QY 258 AGCCGCCAACACTACTACTCTTTCAGCCTGGCGGTCTCTGACCTCTGTGCTGCTGCTCTT 317
Db 334 AGCCTTACCAACTACTACTCTTTCAGCCTGGCGGTCTCGACCTGCTGCTGCTGCTGCTG 393
QY 318 GGAATCCCTCGAGGTCTATGAGATGTGGCGCAACTACCTTTCTTGTGTCGGGCGCGTG 377
Db 394 GGCTGCTGCTTCAAGACGCGCTCTTTGAGACCGTGTGCTCGCCTCCCATCTCCTCAGCATC 437
QY 378 GGTGCTACTTCAAGACGCGCTCTTTGAGACCGTGTGCTCGCCTCCCATCTCCTCAGCATC 437
Db 454 GGTGCTATTTCCGACGCTACTGTTTGTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 513
QY 438 ACCACCGTCAGCGTGGAGCGCTACGTGGCATCTTACACCGCTTCGCGCGCCAACTGCGAG 497
Db 514 ACTGCCCTGAGCGTGGACGCTATGTGGCGGTGGTGCACCCACTCCAGCGCAGGTCCATG 573
QY 498 AGCACCGGCGCGGCGCCCTCAGGATCTCGGGCATCTCTGGGGCTTCTCCCGTCTCTTC 557
Db 574 GTGACGCGGCGCCCATCTGCGCGAGTGTGTTGGGCGCTCTGCGGCTTCTGCGCATGCTGC 633
QY 558 TCCTCGCCCAACACAGCATCCATGCGATCAGTTCCTACTTCTCCCAATGGTCCCTG 617
Db 634 TCCTCGCCCAACACAGCATCCATGCGCGAGTTCGCGCGCATCTGCGCGCTGCGCGCGCCCA 693
QY 618 GTCCAGGTTTGGGCCACCTGTACGGTCAATCAAGCCCATGTGGAATCTACAAATTTTCATC 677
Db 694 GTGCCAGACTCAGCTGTTTGCATGCTGGTCCCGCCACGGGCCCTCTACAAATGTTAGTG 753
QY 678 CAGGTACCTCTCTTCTTATCTACCTCTCCCGCATCTGCTATCAGTGTCTCTCTACTAC 737
Db 754 CAGACCCAGCGGCTGCTCTTCTTCTGCTGCGCCCATGCGCATCATGAGCGTCTCTACCTG 813
QY 738 CTCATGCGACTCAGACTTAAAGAAAGAAATCTCTTTGAGGCGAGATCTCTCTCTCTCTCT 795
Db 814 CTCATTTGGCTGCCACTGGCGGGAGAGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 873
```


GENERAL INFORMATION:
APPLICANT: Pai, Lee-Yuh
APPLICANT: Feighner, Scott C.
APPLICANT: Howard, Andrew D.
APPLICANT: Pong, Sheng-Shung
APPLICANT: Van Der Ploeg, Leonardus H.T.
TITLE OF INVENTION: RECEPTOR ASSAY
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merck & Co., Inc.
STREET: P.O. Box 2000, 126 E. Lincoln Ave.
CITY: Rahway
STATE: NJ
COUNTRY: USA
ZIP: 07065-0900
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/077,675A
FILING DATE: 3-JUN-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Cocuzzo, Anna L.
REGISTRATION NUMBER: 42,452
REFERENCE/DOCKET NUMBER: 19590p
TELECOMMUNICATION INFORMATION:
TELEPHONE: 732-594-1273
TELEFAX: 732-594-4720
TELEX:
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1088 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cdna
US-09-077-675A-6

Query Match 11.5%; Score 149.6; DB 3; Length 1088;
Best Local Similarity 51.4%; Pred. No. 1.3e-27;
Matches 450; Conservative 0; Mismatches 414; Indels 12; Gaps 4;
Qy 167 CGTCTGTGTGTATGTGCAATTTTGTGGTGGGGTTCATGGCAATGTCTTGTGTG 226
Db 122 CGTACAGCCACCTGCGGACCTCTTGTGGTGGGTATCGCTGGCAACCTGCTCACCAT 181
Qy 227 CTTGTGTATTCGAGCACCAGGCTATGAAGACGCCACCACTACTACCTCTTCAGCCT 286
Db 182 GCTGGTGTGTCGCGCTTCGCGAGCTGCGCAGCACCACCACTCTACCTGTCCAGCAT 241
Qy 287 GCGGCTCTGTACCTCTGTGTCCTTGGTAAATGCCCTGGAGTCTATGAGATGTG 346
Db 242 GGCCTCTCGATCTGTCTATCTTCCTC---TGCATGCCCTGGACCTGCTGCCCTGT 298
Qy 347 GCGCACTACCCCTTTCTTGTTCGGGGCCGTTGGTGTCTACTTCAAGACGCCCTCTTTGA 406
Db 299 GCACTACCGGCCCTGGAACTTCGGCGACCTCTCTGCAAACTCTTCCAATTCGTCAGTA 358
Qy 407 GACCGTGTGTTGCCCTTCATCTCAGCATCACCAGCTAGCGTGGAGGCTACGTGGC 466
Db 359 GAGCTGACCTACCCACAGGTGCTCACCATCAGCAGCTGAGCGCTGAGCGCTACTTCGC 418
Qy 467 CATCTACACCCGTTCCGCGCAAACTGAGAGACCCGCCGCCCTCAGGATCCT 526
Db 419 CATCTGCTTCCACTCCGGCCAAAGTGGTGCACCAAGGGCGGTGAAGCTGGTGCAT 478
Qy 527 CGGCATGCTGTGGGGCTTCTCCGTGCTTCTTCTCCCTGCCCAACACAGCATCCATGGCAT 586.

Db 479 CTTGCTCATCTGGGCCCTGTGCTTCTGCAGCGCGGGCCCATCTTCGTGCTAGTCGGGGT 538
Qy 587 CAAGTTCACACTACTTCCCAATGGGTCCCTGGTCCAGAGTTCCGCCACCTGTAGCGGTGCAT 646
Db 539 GGAGCAGGAGAACGGCAGCCGACCTTGGGACACCAAGAGTGGCCGCCACCGGTTGC 598
Qy 647 CAAGCCCATGTGGATCTACAAATTTTCATCATCCAGGTCCACCTTCTCTATTTCTACCTCCT 706
Db 599 GGTGCGCTCTGGACTGCTCAGGTCATGGTGTGGTGTCCAGCATCTTCTTCTTCTTCCCTCC 658
Qy 707 CCCCATGACTGTTCATGAGTCTCTCTACTACTCATGGCATCAGACTTAAAGAAAGACAA 766
Db 659 TGTCTTCTGTC---TCACGGTCTCTACAGTCTCATCGGACAGGAAGTGTGGCGGAGGAG 715
Qy 767 ATCTCTTGAGGCAGATGAAGGAATGCAATATTTCAAGACCCCTGCAGAAATCAGTCAA 826
Db 716 GCGCGGCGATGCTGCTGCTGGTGGCTCGCTCAGGAGCAGAACCAAGCAACCGTG-- 773
Qy 827 CAAGATGCTGTTTCTTGGTCTTAGTGTCTTGTGCTATCTGTTGGGCCCGCTTCCACATTTGA 886
Db 774 -AAATGCTGGCTGAGTGGTGTGGCTTCTCATCTCTGCTGGCTCCCTTCCAGCTAGG 832
Qy 887 CCGACTCTTCTTCAGCTTTTGTGGAGAGTGGAGTGAATTCCTGGCTGCTGTGTGTCAACC- 945
Db 833 GCGATATTATTATTTCCAAATCCTTTGAGCCTGGCTCTTGGAGATTTGCTCAGATCAGCCA 892
Qy 946 --TCGTCCATGTGGTGTGTCAGGTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1003
Db 893 GTACTGCAACCTGCTGCTCTTGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 952
Qy 1004 CTATAAGCTACTGCTGCTCGCGCTTCCAGGACGACAT 1039
Db 953 GTACAACATCATGTCCCAAGAGTACCGGGTGGCAGT 988

RESULT 7

US-09-077-674-6
Sequence 6, Application US/09077674
Patent No. 6531314
GENERAL INFORMATION:
APPLICANT: Arena, Joseph P.
APPLICANT: Cully, Doris F.
APPLICANT: Feighner, Scott D.
APPLICANT: Howard, Andrew D.
APPLICANT: Liberator, Paul A.
APPLICANT: Schaeffer, James M.
APPLICANT: Van Der Ploeg, Leonardus
TITLE OF INVENTION: GROWTH HORMONE SECRETAGOGUE RECEPTOR FAMILY
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merck & Co., Inc.
STREET: P.O. Box 2000, 126 E. Lincoln Ave.
CITY: Rahway
STATE: NJ
COUNTRY: USA
ZIP: 07065-0900
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/077,674
FILING DATE: 3-JUN-1998
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Cocuzzo, Anna L.
REGISTRATION NUMBER: 42,452
REFERENCE/DOCKET NUMBER: 19589p

TELECOMMUNICATION INFORMATION:

TELEPHONE: 732-594-1273
TELEFAX: 732-594-4720
TELEX:

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 1088 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA

US-09-077-674-6

Query Match 11.5%; Score 149.6; DB 4; Length 1088;

Best Local Similarity 51.4%; Pred. No. 1.3e-27;

Matches 450; Conservative 0; Mismatches 414; Indels 12; Gaps 4;

QY 167 CGTGTCTGGGTATGTCGCAATTTTGTGGGGGTATGGCAATGCTCTGGTGTG 226
DB 122 CGTCACAGCCACTGCGTGGCACTCTTCGTGGGTATCGCTGGCAACCTGCTCACCAT 181
QY 227 CTTGGTATTCGACGACGAGGCTATGAGAGCCGCCCACTACTACTCTTTCAGCCT 286
DB 182 GCTGGTGGTTCGCGGCTTCGCGAGCTGCGCACCAACCACTTACTCTGTCAGCAT 241
QY 287 GCGGCTCTGACCTCTGCTCTCTTGGAAATGCCCTGGAGGTCTATGAGATGTG 346
DB 242 GCGCTTCTCGGATCTGCTATCTCTC---TGCATGCCCTGGACCTGTTGCGCTCTG 298
QY 347 GCGCAACTACCTTTCTTGGGCGGCTGGGCTGCTACTTCAAGACGGCCCTCTTTGA 406
DB 299 GCGATACCGGCGCTGGAATCTGGGCGACCTCTCTGCAAACTCTTCCAATTCGTAGTGA 358
QY 407 GACCGTGTCTGCGCTCCATCTCAGCATCACCACTGAGCGGAGCGGTACGTGCG 466
DB 359 GAGTCGACCTAGCCACCGGTCTCACCATCAGCGCTGAGCGTGGAGCGGTACTTCGC 418
QY 467 CATCTTACACCGGTTCCGCGCAAACTGCAGAGCACCGCGCGGCGCTCAGGATCCT 526
DB 419 CATCTGCTTCCCACTCCGCGCAAGGTGGTGTACCAAGGGCGGTGAAGCTGTGAT 478
QY 527 CGGATCTGCTGGGCTTCTCGGTCTCTTCTCCCTGCGCAACACAGCATCATGGCAT 586
DB 479 CTTCTGCTATCTGGGCGGCTTCTGACGCGCGGCGCATCTTCTGCTAGTGGGCT 538
QY 587 CAAGTTCCTACTTCCCAATGGTCCCTGGTCCAGGTTCGGCACCTGTACGTCAT 646
DB 539 GGAGCAGGAGACGGCACCGACCTTGGGACACCAACGAGTGGCGGCCACCGAGTTGC 598
QY 647 CAAGCCCATGTGGATCTACAATTTTCATCATCCAGGTACCTCTCTTATTTACCTCT 706
DB 599 GGTGGCTGTGGACTGCTCAGGTCATGTGTGGGTGTCCAGCATCTTCTTCTCTTCC 658
QY 707 CCCATGACTGTATCAGTGTCTCTTACTACTGTCATGGCACTCAGACTAAAGAAAGCAA 766
DB 659 TGTCTTCTGTC---TACGCGTCTCTACAGTCTCATCGGAGGAGCTGTGGCGGAGAG 715
QY 767 ATCTCTTGGAGGAGATGAAGGAATGCAATATTCAAGACCTCGCAGAAATCAGTCAA 826
DB 716 GCGCGCGATGTGTGCGGTGCTCGCTCAGGACCAAGAACCAACCAACCAACCGTG-- 773
QY 827 CAAGATGCTGTTTGTGCTTGTAGTGTGCTATCTGTTGGGCGGCTTCCACATTTGA 886
DB 774 -AAATGCTGGGTGTAGTGGTGTGCTGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTG 832
QY 887 CCGACTCTTCTTCAGTGTGTGGAGGAGTGAATCCCTGGCTGCTGCTGCTGCTGCTGCTG 945
DB 833 GCGATATTATTTTCCAAATTCCTTTGAGCTGCTCTTGGAGATGTGCTCAGATCAGCCA 892
QY 946 --TCGTCCATGTGGGTGCTAGGTGCTCTTCTTACCTGAGCTGCTGCTGCTGCTGCTGCT 1003
DB 893 GTACTGCAACCTCGTGTCTCTTGTCTCTTCTACCTCAGTGTGCTGCTGCTGCTGCTGCT 952

QY 1004 CTATAACCTACTGTCTTCGCCGCTTCCAGCAGCAGCAT 1039
DB 953 GTACAACATCATGTCTCAAGAAGTATCCGGGTGGCAGT 988

RESULT 8

US-09-016-434-1148
Sequence 1148, Application US/09016434
Patent No. 6500938

GENERAL INFORMATION:

APPLICANT: Janice Au-Young
APPLICANT: Jeffrey J. Sellhamer
TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
TITLE OF INVENTION: PATHWAY GENE EXPRESSION
NUMBER OF SEQUENCES: 1490
CORRESPONDENCE ADDRESS:
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
STREET: 3174 PORTER DRIVE
CITY: PALO ALTO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 94304

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/016,434
FILING DATE: HEREWITH
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:
NAME: Zeller, Karen J.
REGISTRATION NUMBER: 37,071
REFERENCE/DOCKET NUMBER: PA-0002 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 855-0555
TELEFAX: (650) 845-4166
INFORMATION FOR SEQ ID NO: 1148:
SEQUENCE CHARACTERISTICS:
LENGTH: 1101 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: GENBANK
CLONE: g1504140
US-09-016-434-1148

Query Match 11.5%; Score 149.6; DB 4; Length 1101;

Best Local Similarity 51.4%; Pred. No. 1.3e-27;

Matches 450; Conservative 0; Mismatches 414; Indels 12; Gaps 4;

QY 167 CGTGTCTGGGTATGTCGCAATTTTGTGGGGGTATGGCAATGCTCTGGTGTG 226
DB 135 CGTCACAGCCACTGCGTGGCACTCTTCGTGGGTATCGCTGGCAACCTGCTCACCAT 194
QY 227 CTTGGTATTCGACGACGAGGCTATGAGAGCCGCCCACTACTACTCTTTCAGCCT 286
DB 195 GCTGGTGGTTCGCGGCTTCGCGAGCTGCGCACCAACCACTCTACCTGTCCAGCAT 254
QY 287 GCGGCTCTGACCTGCTGCTGCTTGGAAATGCCCTGGAGGTCTATGAGATGTG 346
DB 255 GCGCTTCTCGGATCTGCTATCTTCTC---TGCATGCCCTGGACCTGCTTGGCCTCTG 311
QY 347 GCGCAACTACCTTTTCTTGTGGGCGGCTGCTACTTCAAGACGGCCCTCTTTGA 406
DB 312 GCAGTACCGGCGCTTGGAACTTGGGAGCTCTCTGCAAACTCTTCCAATTCGTCAAGTGA 371

QY 407 GACCGTGTCTTCCGCTCCATCTCCAGCATCACACCGCTCAGCGTGGAGCGCTACGTGGC 466
DB 372 GAGTGCACCTACCGACCGTGTCTCACCATCACAGCGTGAAGCGTACTTGGC 431
QY 467 CATCTACACCGCTTCCGCGCAAACTGCAGACACCGCGCGCGCCCTCAGATGCT 526
DB 432 CATCTGTCTCCACTCCGGCCAAAGTGGTGCACCAAGGGCGGTGAAGCTGGTCA 491
QY 527 CGGCATCGTGTGGGCTTCCGCTCTCTTCTCCCTGCCCAACACCGCATCCATGGCAT 586
DB 492 CTTGCTCATCTGGCGCTTCTCGAGCGCGGCCCATCTTCTGTGTAGTCGGGT 551
QY 587 CAAGTTCACACTTCCCAATGGTCCCTGGTCCAGGTTCGCCACCTGTACGGTCA 646
DB 552 GGAGCAGAGAACCGCACCGCTTGGGACACCAACGAGTGGCGCCCGCCAGTGGC 611
QY 647 CAAGCCCATGTGGATCTACAAATTTTCAATCCAGGTCACTCTCTTCTTATCTACCTCT 706
DB 612 GGTGGCTGTGGACTGTCTCAGGTCATGGTGGTGTCCAGCATCTTCTTCTCTCC 671
QY 707 CCCCATGACTGATCATAGTGTCTTACTACCTCATGGCAGTCAAGCTAAAGAACAA 766
DB 672 TGTCTTCTGTG---TCAGGTCTCTACAGTCTCATCGGAGGAAGTGTGGCGGAG 728
QY 767 ATCTCTTGAGGCAGATGAAGGAATGCAAAATTTTCAAGACCTTGCAGAAATCAGTCA 826
DB 729 GCGCGGAGTCTGTGGTGGCTCGCTCAGGACACCAAGAGTGGCGGAGCGT-- 786
QY 827 CAAGATGCTGTCTTGTGGTCTTGTAGTGTCTTGTCTTGTGGCGCCCGTTCACATGA 886
DB 787 -AAATGCTGTGTAGTGGTGTCTTGTCTTGTCTTGTCTTGTCTTGTCTTGTCTTGTCT 845
QY 887 CCGACTCTTCTCAGCTTTTGGAGGAGTGAATCCCTGGCTGTGTGTGTCAAC-- 945
DB 846 CGCATATTTATTTTCCAAATCTTTGAGCCTTGTGGAGTGTGTGGAGTGTGTGGAG 905
QY 946 --TCGTCCATCTGT 1003
DB 906 GTACTGCAACCTGT 965
QY 1004 CTATAACCTACTGTCTCCGCGCTTCCAGGCGAGCAT 1039
DB 966 GTACACATCATGTCTCCAGAGAGTACCGGTGGCAGT 1001

RESULT 9

US-09-170-496D-87
; Sequence 87, Application US/09170496D
; Patent No. 6555339
; GENERAL INFORMATION:
; APPLICANT: Behan, Dominic P.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Liaw, Chen W.
; TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Protein-
; TITLE OF INVENTION: Receptors
; FILE REFERENCE: AREN-0040
; CURRENT APPLICATION NUMBER: US/09/170.496D
; CURRENT FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 87
; LENGTH: 1101
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-170-496D-87

Query Match 11.5%; Score 149.6; DB 4; Length 1101;
Best Local Similarity 51.4%; Pred. No. 1.3e-27;
Matches 450; Conservative 0; Mismatches 414; Indels 12; Gaps 4;
QY 167 CGT 226
DB 135 CGTCACGCCACCTGCGTGGCACTCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 194

QY 227 CTTGT 286
DB 195 GCTGT 254
QY 287 GCGGT 346
DB 255 GCGT 311
QY 347 GCGCAACTTACCTTCTTGT 406
DB 312 GCAGTACCGGCTTGGAACTTCTGT 371
QY 407 GACCGT 466
DB 372 GAGTGCACCTTACCGACCGTGTCTACCATCACAGCGTGAAGCGTACTTGGC 431
QY 467 CATCTACACCGCTTCCGCGCAAACTGCAGACACCGCGCGCGCCCTCAGATGCT 526
DB 432 CATCTGTCTCCACTCCGGCCAAAGTGGT 491
QY 527 CGGCATGCTGTGGGCTTCTCCGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 586
DB 492 CTTGCTCATCTGTGGCGT 551
QY 587 CAAGTTCACACTTCTCCCAATGGT 646
DB 552 GGAGCAGAGAACCGCACCGCTTGGGACACCAAGAGTGGCGGCGCGCGGCTTGTG 611
QY 647 CAAGCCCATGTGGATCTACAAATTTTCAATCCAGGTCACTCTTCTTCTTCTTCTTCTTCTTCT 706
DB 612 GGTGGCTGTGGACTGTCTCAGGTCATGGT 671
QY 707 CCCCATGACTGCTCATAGTGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 766
DB 672 TGTCTTCTGTG---TCAGGTCTCTACAGTCTCATCGGAGGAAGTGTGGCGGAGG 728
QY 767 ATCTCTTGAGGCAGATGAAGGAATGCAAAATTTTCAAGACCTTGCAGAAATCAGTCA 826
DB 729 GCGCGGAGTCTGT 786
QY 827 CAAGATGCTGT 886
DB 787 -AAATGCTGT 845
QY 887 CCGACTCTTCTCAGCTTTTGGAGGAGTGAATCCCTGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 945
DB 846 CGCATATTTATTTTCCAAATCTTTGAGCCTTGTGGAGTGTGTGGAGTGTGTGGAGTGTGTGGAG 905
QY 946 --TCGTCCATCTGT 1003
DB 906 GTACTGCAACCTGT 965
QY 1004 CTATAACCTACTGTCTCCGCGCTTCCAGGCGAGCAT 1039
DB 966 GTACACATCATGTCTCCAGAGAGTACCGGTGGCAGT 1001

RESULT 10

US-09-077-675A-1
; Sequence 1, Application US/09077675A
; Patent No. 6242199
; GENERAL INFORMATION:
; APPLICANT: Pai, Lee-Yuh
; APPLICANT: Feighner, Scott C.
; APPLICANT: Howard, Andrew D.
; APPLICANT: Pong, Sheng-Shung
; APPLICANT: Van Der Ploeg, Leonardus H.T.
; TITLE OF INVENTION: RECEPTOR ASSAY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.

CITY: Rahway
STATE: NJ
COUNTRY: USA
ZIP: 07065-0900
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/077,675A
FILING DATE: 3-JUN-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Cocuzzo, Anna L.
REGISTRATION NUMBER: 42,452
REFERENCE/DOCKET NUMBER: 19590P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 732-594-1273
TELEFAX: 732-594-4720
TELEX:
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1063 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cdna
US-09-077-675A-1

Query Match 11.1%; Score 144.6; DB 3; Length 1063;
Best Local Similarity 51.3%; Pred. No. 2.2e-26;
Matches 439; Conservative 0; Mismatches 404; Indels 12; Gaps 4;

Qy 167 CGTGTCTGTGTGTATGTGCAATTTTGTGGTGGGCTCATTTGGCAATGCTCTCTGGGTG 226
Db 97 CGTCAGCGCCACCTGGCTGGCGCTCTCTGTGGTGGTATCGCGGGCAACCTGCTCAGCAT 156

Qy 227 CTTGGTGATTTCTCAGACACACAGGCTATGAAGAGCCGCCACCACTACTACTCTTTACAGCCT 286
Db 157 GCTGGTAGTCTACCGTTCCGCGAGATGCGCACCCACCACTCTACCTGTCAGCAT 216

Qy 287 GCGGCTCTGACCTCTGCTGCTGCTCTTGGAAATGCCCTGGAGTCTATCAGATGTG 346
Db 217 GGCCTCTCGACCTACTCATC---TTCCTCTGCATGCCCTCGACCTCTTCCGCCCTCTG 273

Qy 347 GCGCAACTACCTTTCTTTGTCGGGCCGCTGCTACTTCAAGACGCCCTCTTTGA 406
Db 274 GCAGTACCGGCCCTTGGAACTTGGCAACCTGCTGCAACTCTTCCAGTTCTGTAGCGA 333

Qy 407 GACCGTGTGTTGGCTTCCATCTCAGCATCACACCGCTCAGCGTGGAGCGCTACGTGGC 466
Db 334 GAGCTGCATCAGTACGACAGTGTCTACCATCACCGGCTGAGCGCTGAGCGCTACTTCGC 393

Qy 467 CATCTACACCGCTTCCGCGCAAACTGCAAGACACCGCGCGGCCCTCAGGATCCT 526
Db 394 CATCTGTTCCCGCTGGGCGCAAGGTAGTGTACCAAGGGCGGGGTAAAGCTGGTCTAT 453

Qy 527 CGGCATCGTGTGGGGCTTCTCCGTGCTTCTTCCCTGCCCAACACAGCATCCATCGCAT 586
Db 454 CTTGGTCACTGGCGCGTGGCCCTTCTCAGCGCGCGGCCCATCTTCTGCTGCTCGAGT 513

Qy 587 CAAGTCCACTACTTCCCATGGGTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 646
Db 514 GGAGCATGATGAAGCGCACTGACCTCGGACACAGAGTGGCGGCGCCAGGAGTTGCG 573

Qy 647 CAAGCCCATGTCATCTACAAATTTTCATCCAGGTACCTCTCTCTCTCTCTCTCTCTCT 706
Db 574 CGTGGCTCGGGCTGCTTACCGTCATGGTCTGGGTGTCAGTGTCTTCTTCT---TCCT 630

Qy 707 CCCCATGACTGTCTATCAGTGTCTCTACTACCTCATGGCACTCAGACTAAAGAAAGACAA 766
Db 631 GCCTGTCTTCTGCTCACTGTCTCTATAGCTCATCGGAGGAGCTCTGGCGGAGGAA 690

Qy 767 ATCTCTTTGAGCGAGATGAAGGAATGCAAAATATTTCAAAAGACCCCTGCAAGAAATCAGTCAA 826
Db 691 GCGCGGCGAGGCGGCTGGCTCTCGCTCAGGAGACCAACCAACAAACACCGTGT-- 748

Qy 827 CAAGATGCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCT 886
Db 749 -AAATGCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCT 807

Qy 887 CCGA---CTCTTCTTCTGAGTGTGTGGAGAGTGAATCCCTGCTGCTGTGTGTCAA 943
Db 808 GCGATATTTATTTTCCAAATCCCTTGGAGCCCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGT 867

Qy 944 CTTCTGTCATGT 1003
Db 868 ATACTGCAACCTGCTGTCTTGTCTTGTCTTGTCTTGTCTTGTCTTGTCTTGTCTTGTCTTGTCT 927

Qy 1004 CTATAACCTACTGTC 1018
Db 928 GTACAACATCATGTC 942

RESULT 11
US-09-077-674-1
; Sequence 1, Application US/09077674
; Patent No. 6531314
; GENERAL INFORMATION:
; APPLICANT: Arena, Joseph P.
; APPLICANT: Cully, Doris F.
; APPLICANT: Feighner, Scott D.
; APPLICANT: Howard, Andrew D.
; APPLICANT: Liberator, Paul A.
; APPLICANT: Schaeffer, James M.
; APPLICANT: Van Der Ploeg, Leonardus
; TITLE OF INVENTION: GROWTH HORMONE SECRETAGOGUE RECEPTOR FAMILY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.
; CITY: Rahway
; STATE: NJ
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/077,674
; FILING DATE: 3-JUN-1998
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Cocuzzo, Anna L.
; REGISTRATION NUMBER: 42,452
; REFERENCE/DOCKET NUMBER: 19589P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 732-594-1273
; TELEFAX: 732-594-4720
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1063 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna

US-09-077-674-1

Query Match	11.1%	Score 144.6	DB 4	Length 1063
Best Local Similarity	51.3%	Pred. No. 2.2e-26		
Matches 439	Conservative 0	Mismatches 404	Indels 12	Gaps 4
Qy	167	CGTGTCTGTGGTGTATGTGTGCAATTTTGTGGTGGGGTCAATTGGCAATGTCCTGGTGTG	226	
Db	97	CGTACGGCCACCTGGTGGCGCTCTTCGTGGTGGGTATCGCGGCAACCTGTCACGAT	156	
Qy	227	CGTGGTGATTTCTGCAGCAGCAGGCTATTAAGACGCCCAACCACTACTACTCTTACGCGCT	286	
Db	157	GCTGGTAGTGTACGCTTCGGCGAGATGCGCACCAACCAACCTCTACCTGTCCAGCAT	216	
Qy	287	GGCGGTCTGTGACCTCTGTGTCTGTCTTGTGAATGGCCCTGGAGTCTATGAGATGTG	346	
Db	217	GGCTTCTTCGACCTACTCATC---TTCCTCTGCATGCCCTCGAAGCTTTCGCGCTCTG	273	
Qy	347	GCGCAACTACCTTTTCTTGTTCGGGCCGCTGGTCTGCTACTTCAAGACGGCCCTCTTTGA	406	
Db	274	GCAGTACCGGCCCTTGGNAACCTTGGCAACCTGCTCTGCAAACTCTTCAGTTCGTACGGA	333	
Qy	407	GACCGTGTGTCTCGCTTCCATCTCTACAGTACACACCGTCAAGGTGGAGCGCTACGTGGC	466	
Db	334	GAGCTGCACCTACGCCACAGTGTCTACCATCATCGCGCTGAGCGTCACTTCGCTCGC	393	
Qy	467	CATCTACACCCGTTCCGCCGCCAACTGCAGAGGACCCGGCGCGGCCCTCAGGATCCT	526	
Db	394	CATCTGTCTCCCGTTCGGGCCAAGGTAGTGGTCAACGAGCGCGGTGAAGCTGGTGCAT	453	
Qy	527	CGGCATCGTGGGGCTTCCTCGTGTCTTCTCCCTGCCCAACACAGCATCCATGGCAT	586	
Db	454	CTTGGTCATCTGGCGGTGGCTTCTGCACGGCGGGGCCCATCTTGTGTGGTGGAGT	513	
Qy	587	CAAGTTCACCTACTTCCCCAATGGTCCCTGGTCCAGGTTTCGSGCCACCTGTACGGTGCAT	646	
Db	514	GGAGCATGATAACGGCACTCACCTCGGGACACCAACGAGTTCGCGCCACGGAGTTCGC	573	
Qy	647	CAAGCCCATGTGATCTACAATTTTCATCATCAGGTCACTCTTCTCTATTTCTACCTCCT	706	
Db	574	CGTGGCTCGGGCTGCTTACCGTCACTGGTCTGGGTGTCAGTGTCTTCTCTCTCTCTCT	630	
Qy	707	CCCCATGACTGTATCAGTGTCTCTACTACTCTCATGGCATCAGACTAAGAAAGACAA	766	
Db	631	GCCTGTCTTCTGCTCACTGTGTCTATAGCTCTATCGCAGGAGCTCTGGCGGAGGAA	690	
Qy	767	ATCTCTTGAGCCAGATGAAGGGAATGCAAAATATTCAAAGACCCCTGCAGAAAATCAGTCAA	826	
Db	691	CGCGGGGAGGCGCGGTGGGCTCTCGCTCAGGACACCAACCAACCAACCGT--	748	
Qy	827	CAAGATGCTGTGTGTCTGTGTCTTAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	886	
Db	749	-AAATGCTGGCTGTAGT	807	
Qy	887	CCGA--CTCTCTTCAGCTTTGTGGAGGAGTGGAGTGAATCCCTGGCTGCTGTGTCAA	943	
Db	808	CGCATATTTATTTTCCAAATCCCTTGGAGCCTGGCTGTGGAGATGCTCAGATCAGCCA	867	
Qy	944	CTCTGTCATGT	1003	
Db	868	ATACTGCAACCTCGTGTCTTTGTCTCTTCTACCTCAGTGGGCCATCAACCTATCTCT	927	
Qy	1004	CTATAACCTACTGTCT	1018	
Db	928	GTACAACATCATGTCT	942	

```

> APPLICANT: Feighner, Scott C.
> APPLICANT: Howard, Andrew D.
> APPLICANT: Pong, Sheng-Shung
> APPLICANT: Van Der Ploeg, Leonardus H.T.
> TITLE OF INVENTION: RECEPTOR ASSAY
> NUMBER OF SEQUENCES: 16
> CORRESPONDENCE ADDRESS:
> ADDRESSEE: Merck & Co., Inc.
> STREET: P.O. Box 2000, 126 E. Lincoln Ave.
> CITY: Rahway
> STATE: NJ
> COUNTRY: USA
> ZIP: 07065-0900
> COMPUTER READABLE FORM:
> MEDIUM TYPE: Diskette
> COMPUTER: IBM Compatible
> OPERATING SYSTEM: DOS
> SOFTWARE: FastSeq for Windows Version 2.0
> CURRENT APPLICATION DATA:
> APPLICATION NUMBER: US/09/077,675A
> FILING DATE: 3-JUN-1998
> CLASSIFICATION:
> PRIOR APPLICATION DATA:
> APPLICATION NUMBER:
> FILING DATE:
> ATTORNEY/AGENT INFORMATION:
> NAME: Cocuzzo, Anna L.
> REGISTRATION NUMBER: 42,452
> REFERENCE/DOCKET NUMBER: 19590P
> TELECOMMUNICATION INFORMATION:
> TELEPHONE: 732-594-1273
> TELEFAX: 732-594-4720
> TELEX:
> INFORMATION FOR SEQ ID NO: 15:
> SEQUENCE CHARACTERISTICS:
> LENGTH: 1092 base pairs
> TYPE: nucleic acid
> STRANDEDNESS: single
> TOPOLOGY: linear
> MOLECULE TYPE: cDNA
> US-09-077-675A-15

```

Query Match	10.4%	Score 134.8	DB 3	Length 1092
Best Local Similarity	50.2%	Pred. No. 5.7e-24		
Matches	446	Conservative 0	Mismatches 427	Indels 15
Gaps	4			
Qy	167	CGTCTCGTGGTGATGTGCGCAATTTTGTGTGGGGGTATTCGCGAATGTCCTGGGTG	226	
Db	132	CGTCACCGCCACCTGCGGTGGGGCTCTTCGTGTGGGCATCTCAGGCAACCTGCTCACTAT	191	
Qy	227	CCTGGTGATTTCTGCAGCAGCAGGCGTATGAAGACGCCACCAACTACTACCTCTTCAGCCT	286	
Db	192	GCTGGTGGTGTCCGGCTTCCGCGAGCTGCGCACCAACCACTCTACCTGTCCAGCAT	251	
Qy	287	GGCGGTCTCTGACCTCTCTGGTCTCTGCTTCGTTGGAATGCCCCCTGAGAGTCTATGAGATGTG	346	
Db	252	GGCCTTCTCGGATCTGCTCATCT---TCCCTGTGATGCCGTGACCTGCTCCGCCCTG	308	
Qy	347	GCGCAACTACCCCTTTCTTGTTCGGGGCCGTGGGTGCTACTPTCAAGACGGCCCTCTTTGA	406	
Db	309	GCAGTACCGGCCCTGGAACTTCGCGGACCTGCTTCGCAAACTCTTCCAGTTTGTTCAGCGA	368	
Qy	407	GAGCGTGTGTGGCCTTCATCTCTACGATCACCACCGTCTAGCCTGGAGCGCTACGTGGC	466	
Db	369	GAGGTGCACCTACGCCACGGTCTCTACCATCACC CGGTGAGCGTACGCGCTACTTCGC	428	
Qy	467	CATCCTACACCGTTCCTCCGCGCAAACTGCAGAGCACCGCGCGCGGCCCTCAGGATCCT	526	
Db	429	CATCTGCTTCCCTCTCGCGGCCAAGGTGGTGTCTCACTAAGGGCCGCTGAAGCTGGTCAT	488	
Qy	527	CGGCATCGTCTGGGGCTTCTCCGTGCTCTTCTCCCTGCCCAACACCACTCCATGCCAT	586	
Db	489	CTTGTGTCATCTGGGCCGTGGCTTCTTCAGCGCGGGGGCCCATCTTCTGTGCTGGTGGGGCT	548	

[illegible]

RESULT 13

US-09-077-674-15
Sequence 15, Application US/09077674
Patent No. 6531314
GENERAL INFORMATION:
APPLICANT: Arena, Joseph P.
APPLICANT: Cully, Doris F.
APPLICANT: Feigner, Scott D.
APPLICANT: Howard, Andrew D.
APPLICANT: Liberator, Paul A.
APPLICANT: Schaeffer, James M.
APPLICANT: Van Der Ploeg, Leonardus
TITLE OF INVENTION: GROWTH HORMONE SECRETAGOGUE RECEPTOR FAMILY
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merck & Co., Inc.
STREET: P.O. Box 2000, 126 E. Lincoln Ave.
CITY: Rahway
STATE: NJ
COUNTRY: USA
ZIP: 07065-0900
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/077,674
FILING DATE: 3-JUN-1998
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Cocuzzo, Anna L.
REGISTRATION NUMBER: 42,452
REFERENCE/DOCKET NUMBER: 19589P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 732-594-1273

US-09-077-675A-9

```
Query Match          9.3%; Score 120.4; DB 3; Length 1122;
Best Local Similarity 52.3%; Pred. No. 2e-20;
Matches 290; Conservative 0; Mismatches 261; Indels 3; Gaps 1;

Qy 167 CGTGTCTGTGTGTATGTGCCAAATTTTGTGTGGGGTCAATTGGCAATGCTCCTGGTGTG 226
    ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 387 CGTCACAGCCACCTGCGTGCACCTTTCGTGGTGGGTATCGCTGGCAACCTGCTCACCAT 446

Qy 227 CTTGGTGTATCTGCAGACACAGCTATGAGAGAGCCCACTACTACTACTCTTTACGCT 286
    ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 447 GCTGGTGGTGTGCGGTTCGCGAGCTTCGCGAGCTGGCAGCACCACCACTTACCTGTCCAGCAT 506

Qy 287 GCGGGTCTCTGACCTCTGTGTCTCTCTTGAATGCCCTGGAGCTCTATCAGATGTG 346
    ||| |||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 507 GGCTTCTCCGAT---CTGCTCATCTTCTCTCATGCCCCCTGGACCTGTTCCGCTCTG 563

Qy 347 GCGCAACTACCCCTTCTTGTTCGGGCCCTGGGCTGCTACTTCAAGACGGCCCTCTTTGA 406
    || | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 564 GCAGTACCGGCCCTGGAACCTTCGGCGACCTCTCTCTGCAAACTCTTCCAATTCGTCACTGA 623

Qy 407 GACCGTGTGTTCGCTCCATCTCAGCATCACCACTGCTGAGCGTGGAGCGCTACGTGGC 466
    || | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 624 GAGCTGCACCTACGCCACGCTGCTCACCATCACAGGCTGAGCGCTGAGCGCTACTTCGC 683

Qy 467 CATCCTACACCGCTTCGGGCCAAACTGCAGAGCACCGCGCCGCCCTCAGGATCCT 526
    |||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 684 CATCTGCTTCCCACTCGGGGCCAAGGTGGTGTGTCACCAAGGGCGGGTGAAGCTGGTCAT 743

Qy 527 CGGCATGCTGTGGGGTTCCTCCGTGCTTCTCCCTGCCCAACACACAGCATCCATGGCAT 586
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 744 CTTGCTCATCTGGGCGTGGCCCTTCTGCAGCGCCGGGCCCATCTTCTGCTAGTCTGGGGT 803

Qy 587 CAAGTTCCTACTTCCCCCAATGGGTCCCTGGTCCCAAGTTCCGGCCACCTGTACGGTCA 646
    || | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 804 GGAGCAGGAGACGGCACCGACCTTGGGACACCAACAGAGTGGCGCCGCCACCGAGTTTC 863

Qy 647 CAAGCCCATGTGGATCTACAATTTCAATTCATCCAGGTCACTCCTCTCTTCTTACCTCCT 706
    || | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 864 GTGCGCTGTGGACTGCTACGGTCATGGTGTGGGTGTCAGCATCTTCTTCTTCTTCC 923

Qy 707 CCCCATGACTGTCA 720
    | | | | |
Db 924 TGTCTTCTGTCTCA 937
```

Search completed: August 24, 2003, 13:27:58
Job time : 121.507 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 24, 2003, 13:24:07 ; Search time 394.686 seconds
(without alignments)
7393.506 Million cell updates/sec

Title: US-09-609-146-3

Perfect score: 1298

Sequence: 1 agggagcctcagccttg.....tttcagagctgactctctc 1298

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1517243 seqs, 1124081882 residues

Total number of hits satisfying chosen parameters: 3034486

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published_Applications_NA:*

1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq.*
2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq.*
3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq.*
4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq.*
5: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq.*
6: /cgn2_6/ptodata/1/pubpna/PCTUS_PUBCOMB.seq.*
7: /cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq.*
8: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq.*
9: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq.*
10: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq.*
11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq.*
12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq.*
13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq.*
14: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq.*
15: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq.*
16: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq.*
17: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	1248	96.1	1248	12	US-10-272-983-11
2	1239	95.5	1239	14	US-10-225-567A-556
3	723.8	55.8	801	11	US-09-782-974C-17
4	347.6	26.8	1535	14	US-10-146-419-12
5	347.6	26.8	1535	14	US-10-146-123-12
6	346	26.7	1212	14	US-10-083-168-13
7	346	26.7	1212	14	US-10-083-168-82
8	346	26.7	1212	14	US-10-251-385-113
9	346	26.7	1212	14	US-10-251-385-223
10	346	26.7	1212	14	US-10-225-567A-539
11	346	26.7	1212	14	US-10-290-078-16
12	346	26.7	1212	14	US-10-290-078-17
13	151.2	11.6	1101	14	US-10-251-385-209
14	149.6	11.5	1101	14	US-10-251-385-87
15	134.8	10.4	1239	14	US-10-225-567A-472
16	134.8	10.4	1239	14	US-10-290-078-13

17	134.8	10.4	1239	14	US-10-290-078-14	Sequence 14, Appl
18	128	9.9	588	11	US-09-791-279-44	Sequence 44, Appl
19	126.8	9.8	4131	12	US-10-101-510-417	Sequence 417, Appl
20	126.8	9.8	4131	12	US-10-101-510-752	Sequence 752, Appl
21	126.8	9.8	4131	14	US-10-225-567A-206	Sequence 206, Appl
22	120.4	9.3	870	14	US-10-225-567A-139	Sequence 139, Appl
23	119.8	9.2	1258	9	US-09-804-551B-25	Sequence 25, Appl
24	119.8	9.2	1287	14	US-10-270-333-113	Sequence 113, Appl
25	119.8	9.2	4314	14	US-10-270-333-112	Sequence 112, Appl
26	112.4	8.7	1367	14	US-10-241-313-3	Sequence 3, Appl
27	112.4	8.7	1370	14	US-10-224-260-17	Sequence 17, Appl
28	112.4	8.7	1466	14	US-10-224-260-19	Sequence 19, Appl
29	112.4	8.7	1504	14	US-10-225-567A-105	Sequence 105, Appl
30	112.4	8.7	1610	14	US-10-224-260-21	Sequence 21, Appl
31	110	8.5	1529	12	US-10-205-219-22	Sequence 22, Appl
32	107.6	8.3	1788	14	US-10-270-333-194	Sequence 194, Appl
33	97.6	7.5	1569	14	US-10-225-567A-431	Sequence 431, Appl
34	94.4	7.3	1983	14	US-10-270-333-191	Sequence 191, Appl
35	93.2	7.2	1164	14	US-10-228-264-3	Sequence 3, Appl
36	93.2	7.2	1309	14	US-10-225-567A-365	Sequence 365, Appl
37	93.2	7.2	1365	8	US-08-899-112-29	Sequence 29, Appl
38	93.2	7.2	1365	15	US-10-298-992-4	Sequence 4, Appl
39	93	7.2	1427	10	US-09-967-768A-296	Sequence 296, Appl
40	91.4	7.0	1167	14	US-10-225-567A-317	Sequence 317, Appl
41	89.4	6.9	1362	9	US-09-825-294-208	Sequence 208, Appl
42	89.4	6.9	1362	10	US-09-970-966-208	Sequence 208, Appl
43	89.4	6.9	1362	14	US-10-097-340-118	Sequence 118, Appl
44	89.4	6.9	1362	14	US-10-225-567A-363	Sequence 363, Appl
45	89.4	6.9	1362	15	US-10-212-677-208	Sequence 208, Appl

ALIGNMENTS

RESULT 1

US-10-272-983-11
; Sequence 11, Application US/10272983
; Publication No. US20030148450A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Ruoping
; APPLICANT: Dang, Huang T.
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: Human Orphan G Protein Coupled Receptors
; FILE REFERENCE: AREN0050
; CURRENT APPLICATION NUMBER: US/10/272,983
; CURRENT FILING DATE: 2002-10-17
; PRIOR APPLICATION NUMBER: US/09/417,044
; PRIOR FILING DATE: 1999-10-12
; PRIOR APPLICATION NUMBER: 60/109,213
; PRIOR FILING DATE: 1998-11-20
; PRIOR APPLICATION NUMBER: 60/120,416
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/121,851
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: 60/123,946
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,949
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/136,436
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136,437
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136,439
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136,567
; PRIOR FILING DATE: 1999-05-28
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 11
; LENGTH: 1248
; TYPE: DNA

90

90

```
QY 456 CGTACGTGGCCATCTTACACCGTTCCGGCCAAACTGCGAGAGCACCGCGCGCGGCC 515
Db 421 CGTACGTGGCCATCTTACACCGTTCCGGCCAAACTGCGAGAGCACCGCGCGCGGCC 480
QY 516 CTCAGGATCTCGGCATCGTCTGGGCGTTCCTCGGTCTCTTCCCTGCCCAACACAGC 575
Db 481 CTCAGGATCTCGGCATCGTCTGGGCGTTCCTCGGTCTCTTCCCTGCCCAACACAGC 540
QY 576 ATCCATGGGCATCAAGTCCACTACTTCCCAATGGGTCCCTGGTCCCGAGTTGGCCACC 635
Db 541 ATCCATGGGCATCAAGTCCACTACTTCCCAATGGGTCCCTGGTCCCGAGTTGGCCACC 600
QY 636 TGTACGGTCTATCAAGCCCATGTGGATCTACAATTTTCATCATCCAGGTCACTCTCTCTTA 695
Db 601 TGTACGGTCTATCAAGCCCATGTGGATCTACAATTTTCATCATCCAGGTCACTCTCTCTTA 660
QY 696 TTCTACCTCTCCCATGACTGTGTCAGTGTCTCTTACCTCATGAGTGTGAGTGTGAGTGTG 755
Db 661 TTCTACCTCTCCCATGACTGTGTCAGTGTCTCTTACCTCATGAGTGTGAGTGTGAGTGTG 720
QY 756 AAGAAGACAAATCTCTTGAGGAGATGAAGGAATGCAAAATTTCAAGACCTCGAGA 815
Db 721 AAGAAGACAAATCTCTTGAGGAGATGAAGGAATGCAAAATTTCAAGACCTCGAGA 780
QY 816 AAATCAGTCAACAAGATGCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 875
Db 781 AAATCAGTCAACAAGATGCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 840
QY 876 TTCCACATTCACGAGCTCTTCTTTCAGCTTTGTTGAGGAGTGGAGTGAATCCCTGGGTGCT 935
Db 841 TTCCACATTCACGAGCTCTTCTTTCAGCTTTGTTGAGGAGTGGAGTGAATCCCTGGGTGCT 900
QY 936 GTGTTCAACCTCTCCATGCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 995
Db 901 GTGTTCAACCTCTCCATGCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 960
QY 996 CCATTATCTATAACCTACTGTCTCGCGCGTTCCAGGAGCATTTCCAGAAATGTGATCTCT 1055
Db 961 CCATTATCTATAACCTACTGTCTCGCGCGTTCCAGGAGCATTTCCAGAAATGTGATCTCT 1020
QY 1056 TCTTTCCACAAACAGTGGGACTCCGAGCATGACCCAGATGGCCACTGCCCGAGCGAAC 1115
Db 1021 TCTTTCCACAAACAGTGGGACTCCGAGCATGACCCAGATGGCCACTGCCCGAGCGAAC 1080
QY 1116 ATCTTCTGACAGATGCCACTTTGTGGAGCTGACCGAAGATATAGTCTCCCAATTCCTCA 1175
Db 1081 ATCTTCTGACAGATGCCACTTTGTGGAGCTGACCGAAGATATAGTCTCCCAATTCCTCA 1140
QY 1176 TGTCACTATCCATGACAACTCTCACTCCCAACAGCCCTCTCTAGTGAACAGATGTCA 1235
Db 1141 TGTCACTATCCATGACAACTCTCACTCCCAACAGCCCTCTCTAGTGAACAGATGTCA 1200
QY 1236 AGAACAACTATCAAGCTTCCACTTTAACAACCTGA 1274
Db 1201 AGAACAACTATCAAGCTTCCACTTTAACAACCTGA 1239
```

RESULT 3
US-09-782-974C-17/c
; Sequence 17, Application US/09782974C
; Publication No. US20030082534A1
; GENERAL INFORMATION:
; APPLICANT: Vogeli, Gabriel
; APPLICANT: Lind, Peter
; APPLICANT: Wood, Linda S.
; APPLICANT: Parodi, Luis A.
; TITLE OF INVENTION: No. US20030082534A1 G Protein Coupled Receptor
; FILE REFERENCE: 41USPHRM311
; CURRENT APPLICATION NUMBER: US/09/782,974C
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: 60/165,838
; PRIOR FILING DATE: 1999-11-16

```
; PRIOR APPLICATION NUMBER: 09/714,449  
; PRIOR FILING DATE: 2000-11-16  
; PRIOR APPLICATION NUMBER: 60/198,568  
; PRIOR FILING DATE: 2000-04-20  
; PRIOR APPLICATION NUMBER: 60/166,071  
; PRIOR FILING DATE: 1999-11-17  
; PRIOR APPLICATION NUMBER: 60/166,678  
; PRIOR FILING DATE: 1999-11-19  
; PRIOR APPLICATION NUMBER: 60/173,396  
; PRIOR FILING DATE: 1999-12-28  
; PRIOR APPLICATION NUMBER: 60/184,129  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: 60/185,421  
; PRIOR FILING DATE: 2000-02-28  
; PRIOR APPLICATION NUMBER: 60/185,554  
; PRIOR FILING DATE: 2000-02-28  
; PRIOR APPLICATION NUMBER: 60/186,530  
; PRIOR FILING DATE: 2000-03-02  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 192  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 17  
; LENGTH: 801  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; US-09-782-974C-17  
  
Query Match 55.8%; Score 723.8; DB 11; Length 801;  
Best Local Similarity 99.7%; Pred. No. 2.7e-207;  
Matches 725; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 30 TCAGGGATGAAAAAATTCAGAATGCTTCTCGGATCTACAGCAGAACTAGAAAGATCCA 89  
Db 801 TCAGGGATGAAAAAATTCAGAATGCTTCTCGGATCTACAGCAGAACTAGAAAGATCCA 742  
QY 90 TTCAGAAACACCTGAAACAGCAGGAGATATCTGGCCTTCCTCTCGGACCTCGGGCGC 149  
Db 741 TTCAGAAACACCTGAAACAGCAGGAGATATCTGGCCTTCCTCTCGGACCTCGGGCGC 682  
QY 150 AGCAGCTTCTCTCCCGCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 209  
Db 681 AGCAGCTTCTCTCCCGCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 622  
QY 210 GGCAATGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 269  
Db 621 GGCAATGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 562  
QY 270 TACTACCTCTTACGCTTGGGCGTCTCTGACCTCTCTGTCTCTCTTGGAAATGCCCTG 329  
Db 561 TACTACCTCTTACGCTTGGGCGTCTCTGACCTCTCTGTCTCTCTTGGAAATGCCCTG 502  
QY 330 GAGTCTATCAGATGTGGCGCACTACCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 389  
Db 501 GAGTCTATGAGATGTGGCGCACTACCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 442  
QY 390 AAGAGCGGCTCTTGTGAGACCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 449  
Db 441 AAGAGCGGCTCTTGTGAGACCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 382  
QY 450 GTGAGCGCTTACGTGGCCATCTTACACCGTGTGGCGCCCAAACTGCGAGACACCGCGCGC 509  
Db 381 GTGAGCGCTTACGTGGCCATCTTACACCGTGTGGCGCCCAAACTGCGAGACACCGCGCGC 322  
QY 510 CGGGCCCTCAGGATCTCTCGGCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 569  
Db 321 CGGGCCCTCAGGATCTCTCGGCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 262  
QY 570 ACCAGATCATGCGATCAAGTTCCACTACTTCCCAATGGGTCCCTGGTCCCAAGTTTCG 629  
Db 261 ACCAGATCATGCGATCAAGTTCCACTACTTCCCAATGGGTCCCTGGTCCCAAGTTTCG 202  
QY 630 GCCACCTGTACGTCATCAAGCCCATGTGGATCTTACAAATTTTCATCATCCAGGTCACTCC 689  
Db 630 GCCACCTGTACGTCATCAAGCCCATGTGGATCTTACAAATTTTCATCATCCAGGTCACTCC 689
```

Query Match	26.8%	Score 347.6	DB 14	Length 1535
Best Local Similarity	62.1%	Pred. No. 6.8e-94		
Matches 591; Conservative	0	Mismatches 319	Indels 42	Gaps 1
Qy	138	GGACCTCGGCGCAGCCACTTCTCCTCCCGTGCTGGTGATATGCGCAATTTTGTG	197	
Db	214	GGGCCCCAGCAGACAGAGCTGTTTCATGCCCATCTGTGCCACATACCTGCTGATCTTCGTG	273	
Qy	198	GTGGGGCTCATTTGGCAATGTCTTGTTGGCTTGCTGATCTTCGACGACACAGGCTATGAAG	257	
Db	274	GTGGGCGCTGTGGCAATGGCTGACCTGTCTGGTTCATCTTCGCCCAACAAGGCCATGGC	333	
Qy	258	ACGCCACCAACTACTACTCTTCACGCTTCCGCGTCTCTGACCTCTGCTCTGCTCTCTT	317	
Db	334	ACGCTACCAACACTACTACTCTTCAGCTTCCAGCTTGGCGTGTGCGACCTGCTGTGCTGGTG	393	
Qy	318	GGAAATGCCCTGGAGGTCTATGAGATGTGGCGAACTACCCCTTTCTTTTCGGGCGCGTG	377	
Db	394	GGCTGCGCCCTGGAGCTCTATGAGATGTGCACAACTACCCCTTCTCTGCTGGGCGTTGGT	453	
Qy	378	GGCTGCTACTTCAAGACGGGCCCTCTTTTGAGACCGTGTGTTTGGCTCCATCTCCAGCATC	437	
Db	454	GGCTGCTATTTCGCGACGGCTACTGTTTGGATGGTCTGCCCTGGGCTCAGTCTCAAGTCC	513	
Qy	438	ACCACGCTCAGCTGGAGCGCTACGTGGCCATCCTACACCGTTCCGCGCCAACTCGAG	497	
Db	514	ACTGCCCTGAGCTGGNACGCTATGGCCGTGGTGCACCACTCCAGCGAGGTCATG	573	
Qy	498	AGCACCGGGCGGGGCCCTCAGAACTCTCGGCATGCTCTGGGCTTCTCCGCTGCTTTC	557	
Db	574	GTGACGCGGCCCATGTGCGCCGAGTGTCTGGGGCCGTCTGGGCTCTTGCACTGCTCTGC	633	

```
Qy 138 GGACCTCGGCGCAGCCACTTCTTCTCCCTCCCGTGTCTGTGTGTATGTGCCAATTTTGTG 197
Db 214 GGGCCCCAGCAGACAGAGCTGTTTCATGCCATCTGTGCCACATACCTGCTGTATCTCGTG 273
Qy 198 GTGGGGTCAATTGGCAATGCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 257
Db 274 GTGGGGCTGTGGGCAATGGGCTGACCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 333
Qy 258 ACGCCCACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACT 317
Db 334 ACGCCCACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACT 393
Qy 318 GGAATGCCCCGTGGAGGTCTATGAGATGTGGCGCAACTTACCTTTCTTTTGTGGGCCCGTG 377
Db 394 GGCCTGCCCTGGAGCTCTATGAGATGTGGCAACTTACCTTTCTTTCTGTGGGGTGGT 453
Qy 378 GGCCTGCTACTTCAAGCGGCCCTCTTTGAGACCGTGTGTGTGTGTGTGTGTGTGTGTGTGT 437
Db 454 GGCCTGCTATTTCCGACGCTACTGTTGAGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 513
Qy 438 ACCACCGTCAAGCGTGGAGCGCTACGTGGCCATCTTACACCGCTTCCGCGCCAAACTGCAG 497
Db 514 ACTGCCCTGAGCGTGGAGCGCTATGTGGCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 573
Qy 498 AGCACCGCGCGCGCGCGCTCAGGATCTCTGGGCAATGTGTGTGTGTGTGTGTGTGTGTGTGT 557
Db 574 GTGACGCGGGGCCATGTGCGCGGAGTGTGTGGGCGCTGTGGGGTCTTGTGCATGCTCTGC 633
Qy 558 TCCCTGCCCAACACAGCATCCATGGCATCAAGTTCACACTTCCCAATGGTGTCCCTG 617
Db 634 TCCCTGCCCAACACAGCATCCATGGCATCGGCGAGTGTGTGTGTGTGTGTGTGTGTGTGTGT 693
Qy 618 GTCCAGGTTTGGGCACTGTACCGTCAATGAAGCCATGTGAGTCTCAAAATTTTCATCATC 677
Db 694 GTGCCAGACTCAGCTGTTGATGCTGTCCGCGCACGGCCCTCTACACATGCTAGTG 753
Qy 678 CAGTCACTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 737
Db 754 CAGACCAACCGGCTGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 813
Qy 738 CTCATGCACTCAGACTAAGAAAGACAAATCTCTTGAGCGAGATGAAGGAATGCAA-- 795
Db 814 CTCATGGGCTGCGACTGCGCGGAGAGGCTGCTGTCTCAATGACGAGGCAAGGGCAGG 873
Qy 796 -----ATATTCAAAGACCCTGCAGA 815
Db 874 GGCTCTGCGAGCGCCAGTCCAGATACACCTGCGAGGCTCCAGCAGCAGGATCGGGGCGG 933
Qy 816 AAATCAGTCAACAAAGATGCTGTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 875
Db 934 AGACAAGTGACCAAGATGCTGTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 993
Qy 876 TTCCACATTGACCACTCTTCTTCAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 935
Db 994 TTCCACCGGACCGCGTCAATGTGAGGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1053
Qy 936 GTGTTCACCTCTGCTATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 995
Db 1054 GCCTTCCAGCAGTGTGAGCTATCTCGGCACTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1113
Qy 996 CCCATTATATAACCTACTGTCTCGCGCTTCCAGCAGCAGCATTTCCAGAATG 1047
Db 1114 CCCGTGCTATAGCCTCATGCTCCAGCGCTTCCGAGAGAGCTTCCAGGAGG 1165
```

RESULT 6

US-10-083-168-13

: Sequence 13, Application US/10083168

: Publication No. US20030023069A1

: GENERAL INFORMATION:

: APPLICANT: Liaw, Chen W.

: APPLICANT: Chalmers, Derek T.

: APPLICANT: Behan, Dominic P.

: APPLICANT: Maciejewski-Lenior, Dominique
: APPLICANT: Leonard, James N.
: APPLICANT: Ortuno, Daniel
: APPLICANT: Lin, I-Lin
: TITLE OF INVENTION: Endogenous And No. US20030023069A1-Endogenous, Constitutively
: FILE OF INVENTION: Receptors
: FILE REFERENCE: AREN-0320
: CURRENT APPLICATION NUMBER: US/10/083.168
: CURRENT FILING DATE: 2002-02-26
: NUMBER OF SEQ ID NOS: 102
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 13
: LENGTH: 1212
: TYPE: DNA
: ORGANISM: Homo sapiens
US-10-083-168-13

Query Match 26.7%; Score 346; DB 14; Length 1212;

Best Local Similarity 62.0%; Pred. No. 1.8e-93;

Matches 590; Conservative 0; Mismatches 320; Indels 42; Gaps 1;

```
Qy 138 GGACCTCGGCGCAGCCACTTCTTCTCCCTCCCGTGTCTGTGTGTATGTGCCAATTTTGTG 197
Db 88 GGGCCCCAGCAGACAGAGCTGTTTCATGCCATCTGTGCCACATACCTGCTGTATCTCGTG 147
Qy 198 GTGGGGTCAATTGGCAATGCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 257
Db 148 GTGGGGCTGTGGGCAATGGGCTGACCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 207
Qy 258 ACGCCCACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACT 317
Db 208 ACGCCCACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACT 267
Qy 318 GGAATGCCCCGTGGAGGTCTATGAGATGTGGCGCAACTTACCTTTCTTTTGTGGGCCCGTG 377
Db 268 GGCCTGCCCTGGAGCTCTATGAGATGTGGCAACTTACCCCTTCTTCTGTGGCGTGGT 327
Qy 378 GGCTGCTACTTCAAGACGCGCCCTCTTTGAGACCGTGTGTGTGTGTGTGTGTGTGTGTGTGT 437
Db 328 GGCTGCTATTTCCGCGCAGCTACTGTTGAGATGCTGTGTGTGTGTGTGTGTGTGTGTGTGT 387
Qy 438 ACCACCGTCAAGCTGTGGAGCGCTACGTGGCCATCTTACACCGCTTCCGCGCCAAACTGCAG 497
Db 388 ACTGCCCTGAGCGTGAACGCTATGTGGCGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 447
Qy 498 AGCACCGCGCGCGCGCCCTCAGGATCTCGGCATCTGTGTGTGTGTGTGTGTGTGTGTGTGT 557
Db 448 GTGACGCGGGGCCATGTGCGCGGAGTGTGTGGGCGCTGTGGGCTTGTGCCATGCTCTGC 507
Qy 558 TCCCTGCCCAACACAGCATCCATGGCATCAAGTTCACACTACTTCCCCCAATGGGTGCCCTG 617
Db 508 TCCCTGCCCAACACAGCGCTGACGGCATCGGCGAGCTGCGAGTGTGTGTGTGTGTGTGTGTGTGT 567
Qy 618 GTCCAGAGTGTGGCCACCTGTACGCTCATCAAGGCCATGTGTGTGTGTGTGTGTGTGTGTGTGT 677
Db 568 GTCCAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 627
Qy 678 CAGTCACTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 737
Db 628 CAGACCAACCGGCTGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 687
Qy 738 CTCATGCACTCAGACTAAGAAAGACAAATCTCTTGAGCGAGATGAAGGAATGCAA-- 795
Db 688 CTCATTTGGGCTGCGACTGCGCGGAGAGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 747
Qy 796 -----ATATTCAAAGACCCTGCAGA 815
Db 748 GGCTCTGCGAGCGCCAGTCCAGATACACCTGCGAGGCTCCAGCAGCAGGATCGGGGCGG 807
Qy 816 AAATCAGTCAACAAAGATGCTGTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 875
Db 808 AGACAAGTGACCAAGATGCTGTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 867
```


[illegible]

RESULT 9

```

RESULTS 9
US-10-251-385-223
; Sequence 223, Application US/10251385
; Publication No. US20030105292A1
; GENERAL INFORMATION:
; APPLICANT: Behan, Dominic P.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Liaw, Chen W.
; TITLE OF INVENTION: No. US20030105292A1-Endogenous, Constitutively Activated Human G
; TITLE OF INVENTION: Protein-Coupled
; TITLE OF INVENTION: Receptors
; FILE REFERENCE: AREN-0040
; CURRENT APPLICATION NUMBER: US/10/251,385
; CURRENT FILING DATE: 2002-09-20
; PRIOR APPLICATION NUMBER: US/09/170,496
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 294

```


; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 209
; LENGTH: 1101
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-251-385-209

```
Query Match      11.6%; Score 151.2; DB 14; Length 1101;
Best Local Similarity 51.5%; Pred. No. 7.8e-35;
Matches 451; Conservative 0; Mismatches 413; Indels 12; Gaps 4;

QY 167 CQTGCTCTGGGTATGTGCCAATTTTGTGGTGGGGTCAATGGCAATGCTCTGGTGTG 226
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 135 CGTCACAGCACCTCGCTGGCACTCTTCGTGGTGGTATCGTGGCAACCTGCTCACCAT 194

QY 227 CQTGCTGATTCGACGACCAAGGCTATGAAGAGCGCCCACTACTACTCTTACGCT 286
    ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 195 GCTGGTGGTGTGCGGCTTCGCGAGCTGGCGACCAACCAACCTTACTCTGCCAGCAT 254

QY 287 GCGGTCTCTGACCTCTGCTCTCTTGGATGCCCTGGAGGCTATGAGATG 346
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 255 GGCCTTCTCCGATCTGCTATCTTCCTC---TGCATGCCCTGGACCTGTTCCGCTCTG 311

QY 347 GCGCAACTACCTTTTGTTCGGGCCCGTGGGCTGCTACTTCAAGACGGCCCTCTTTGA 406
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 312 GCAGTACCGGCTTGGAACTTCGGCGACCTCTCTGCAAACTCTTCCAATTCGTCAGTGA 371

QY 407 GACCGTGTCTGCGCTCTCATCTCAGCATACCACTGACGGTGGAGCGCTACGTGGC 466
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 372 GAGCTGCACCTACGCCACGGTCTCACCATCACAGCGCTGAGCGTGGAGCGTACTTCGC 431

QY 467 CATCTTACACCGTTCCGGCGCAACTGCGAGAGCACCGCGCGCCCTCAGATCCT 526
    ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 432 CATCTGCTCCCACTTCCGACCTTCGCGACCTCTCTGCAAACTCTTCCAATTCGTCAGTGA 371

QY 527 CGGCATGCTCTGGGCTCTTCCTCTTCTCCCTGCGGCGCTGCTACTTCAAGACGGCCCTCTTTGA 406
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 492 CTTCTGCTATCTGGGCGCTGGCCCTTCTGACGCGCGGGCCCATCTTCGTGCTAGTCGGGCT 551

QY 587 CAAGTTCCTACTACTTCCCAATGGGTCCCTGCTGCCAGGTTCGGCCACCTTACGGTCTAT 646
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 552 GGAGCAGCAGAACGCGCACCGACCTTGGGACCAACAGAGTCCGCCCCACCGAGTTTGC 611

QY 647 CAAGCCCATGTGGATCTACAATTTTCAATCATCATCAGGTACCTCTTCTTCTTACCTCT 706
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 612 GGTGGCTCTGGACTGCTCACGCTCATGTGTGGGTGTCCAGCATCTTCTTCTTCTTCTTCC 671

QY 707 CCCCAGTACTGTATCAGTCTCTACTACCTTGGCACTGCACTCAGACTAAAGAACACAA 766
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 672 TGTCTTCTGTC---TCACGGTCTCTACAGTCTCATCTGGCAGGAGAGCTGTGGGGAGGAG 728

QY 767 ATCTCTTGAGGAGATGAAGGGAATTCAAATATTTCAAAGACCTCTGCAGAAAATCAGTCAA 826
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 729 GCGCGCGATGCTGCTGGTGGCTCTGCTCAGGACCAAGACCAACAAAGCAAC---CAA 785

QY 827 CAAGATGCTGTTGCTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGT 886
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 786 GAAATGCTGGCTGTAGTGTGTTGGCTTCTATCTGCTGGCTCCCTTCCACGTAGG 845

QY 887 CCGACTCTTCTTACGCTTTGTGGAGAGTGGAGTGAATCCCTGGCTGCTGTGTTTCAACC- 945
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 846 GCGATATTATTATTTCCAAATCTTTGAGCTTGGCTTGGAGATTTGCTCAGATCAGGCA 905

QY 946 ---TCGTCCATGTGGTGTGAGGTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 1003
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 906 GTACTGCAACCTCGTGTCTTGTCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 965

QY 1004 CTATAACTACTGTCTCGCGCTTCCAGGACGATTT 1039
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 966 GTACAACATCATGTCCAAAGATACCGGGTGGCAGT 1001
```

RESULT 14
US-10-251-385-87
; Sequence 87, Application US/10251385
; Publication No. US20030105292A1
; GENERAL INFORMATION:
; APPLICANT: Behan, Dominic P.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Liaw, Chen W.
; TITLE OF INVENTION: No. US20030105292A1-Endogenous, Constitutively Activated Human
; TITLE OF INVENTION: Protein-Coupled
; FILE REFERENCE: AREN-0040
; CURRENT APPLICATION NUMBER: US/10/251,385
; PRIOR FILING DATE: 2002-09-20
; PRIOR APPLICATION NUMBER: US/09/170,496
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 87
; LENGTH: 1101
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-251-385-87

```
Query Match      11.5%; Score 149.6; DB 14; Length 1101;
Best Local Similarity 51.4%; Pred. No. 2.4e-34;
Matches 450; Conservative 0; Mismatches 414; Indels 12; Gaps 4;

QY 167 CQTGCTCTGGGTATGTGCCAATTTTGTGGTGGGGTCAATGGCAATGCTCTGGTGTG 226
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 135 CGTCACAGCACCTCGCTGGCACTCTTCGTGGTGGTATCGTGGCAACCTGCTCACCAT 194

QY 227 CQTGCTGATTCGACGACCAAGGCTATGAAGAGCGCCCACTACTACTCTTACGCT 286
    ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 195 GCTGGTGGTGTGCGGCTTCGCGAGCTGGCGACCAACCAACCTTACTCTGCCAGCAT 254

QY 287 GCGGTCTCTGACCTCTGCTCTCTTGGATGCCCTGGAGGCTATGAGATG 346
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 255 GGCCTTCTCCGATCTGCTATCTTCCTC---TGCATGCCCTGGACCTGTTCCGCTCTG 311

QY 347 GCGCAACTACCTTTTGTTCGGGCCCGTGGGCTGCTACTTCAAGACGGCCCTCTTTGA 406
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 312 GCAGTACCGGCTTGGAACTTCGGGACCTCTCTGCAAACTCTTCCAATTCGTCAGTGA 371

QY 407 GACCGTGTCTGCGCTCTCATCTCAGCATACCACTGACGGTGGAGCGCTACGTGGC 466
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 372 GAGCTGCACCTACGCCACGGTCTCACCATCACAGCGTGGAGCGTGGAGCGTACTTCGC 431

QY 467 CATCTTACACCGTTCCGGCGCAACTGCGAGAGCACCGCGCGCCCTCAGGATCCT 526
    ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 432 CATCTGCTTCCCACTTCCGACCTTCGCGACCTCTCTGCAAACTCTTCCAATTCGTCAGTGA 371

QY 527 CGGCATGCTCTGGGCTCTTCCTCTTCTCCCTGCGGCGCTGCTACTTCAAGACGGCCCTCTTTGA 406
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 492 CTTCTGCTATCTGGGCGCTGGCCCTTCTGACGCGCGGGCCCATCTTCGTGCTAGTCGGGCT 551

QY 587 CAAGTTCCTACTACTTCCCAATGGGTCCCTGCTGCCAGGTTCGGCCACCTTACGGTCTAT 646
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 552 GGAGCAGCAGAACGCGCACCGACCTTGGGACCAACAGAGTCCGCCCCACCGAGTTTGC 611

QY 647 CAAGCCCATGTGGATCTACAATTTTCAATCATCATCAGGTACCTCTTCTTCTTACCTCT 706
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 612 GGTGGCTCTGGACTGCTCACGCTCATGTGTGGGTGTCCAGCATCTTCTTCTTCTTCTTCC 671

QY 707 CCCCAGTACTGTATCAGTCTCTACTACCTTGGCACTGCACTCAGACTAAAGAACACAA 766
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 672 TGTCTTCTGTC---TCACGGTCTCTACAGTCTCATCTGGCAGGAGAGCTGTGGGGAGGAG 728

QY 767 ATCTCTTGAGGAGATGAAGGGAATTCAAATATTTCAAAGACCTCTGCAGAAAATCAGTCAA 826
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 729 GCGCGCGATGCTGCTGGTGGCTCTGCTCAGGACCAAGACCAACAAAGCAAC---CAA 786

QY 827 CAAGATGCTGTTGCTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGT 886
```


THIS PAGE BLANK (USPTO)

Result No.	Score	Query		DB	ID	Description
		Match	Length			
1	787.6	64.0	1248	4	US-09-545-944-1	Sequence 1, Appli
2	330.6	26.9	1212	4	US-09-170-496D-113	Sequence 113, Appli
3	330.6	26.9	1535	4	US-09-668-680-12	Sequence 12, Appli
4	329	26.7	1212	4	US-09-170-496D-223	Sequence 223, Appli
5	134.4	10.9	1101	4	US-09-170-496D-209	Sequence 209, Appli
6	133.2	10.8	1092	3	US-09-077-675A-15	Sequence 15, Appli
7	133.2	10.8	1092	4	US-09-077-674-15	Sequence 15, Appli
8	132.8	10.8	1088	3	US-09-077-675A-6	Sequence 6, Appli
9	132.8	10.8	1088	4	US-09-077-674-6	Sequence 6, Appli
10	132.8	10.8	1101	4	US-09-016-434-1148	Sequence 1148, Appli
11	132.8	10.8	1101	4	US-09-170-496D-87	Sequence 87, Appli
12	128	10.4	1063	3	US-09-077-675A-1	Sequence 1, Appli
13	128	10.4	1063	4	US-09-077-674-1	Sequence 1, Appli
14	103.4	8.4	836	3	US-09-077-675A-11	Sequence 11, Appli
15	103.4	8.4	836	4	US-09-077-674-11	Sequence 11, Appli
16	102.2	8.3	3129	3	US-09-077-675A-14	Sequence 14, Appli
17	102.2	8.3	3129	4	US-09-077-674-14	Sequence 14, Appli
18	100.2	8.1	1122	3	US-09-077-675A-9	Sequence 9, Appli
19	100.2	8.1	1122	4	US-09-077-674-9	Sequence 9, Appli
20	98.4	8.0	1029	3	US-09-077-675A-4	Sequence 4, Appli
21	98.4	8.0	1029	4	US-09-077-674-4	Sequence 4, Appli
22	95.6	7.8	1161	1	US-08-086-439C-2	Sequence 2, Appli
23	95.6	7.8	1161	3	US-08-434-877-2	Sequence 2, Appli
24	95.6	7.8	1367	3	US-08-475-742-3	Sequence 3, Appli
25	95.6	7.8	1367	4	US-08-261-293-3	Sequence 3, Appli
26	95.6	7.8	1370	1	US-08-056-051-1	Sequence 1, Appli
27	95.6	7.8	1370	1	US-07-928-661-17	Sequence 17, Appli

[illegible]

Db 88 GGGCCCCAGCAGACAGAGCTGTTTCATGCCATCTGTGCCACATACCTGCTGATCTTCGTG 147
Qy 170 GTGGGGTAAATGGGCAATCTTCGTGGTGTGATGTGTCACATCAGACATTTGAAG 229
Db 148 GTGGGGCTGTGGGCAATGGCTGACCTGTGCTGATCTGCTGCCCAAGGCAATCGC 207
Qy 230 ACACCCACCAACTACTATCTCTTCAGCTTGGCAGCTTCAGATCTGCTGGCTCTGCTTG 289
Db 208 ACGCTACCAACTACTACTCTTCAGCTTGGCAGCTTCAGATCTGCTGGCTCTGCTGGTG 267
Qy 290 GGGATGCTCTGGAATATACGAGATGTGACAAATTTACCTTTTCCTGTTGGGCCCTG 349
Db 268 GGCCTGCCCTGGAGCTCTATGAGATGTGCACAACTACCCCTTCCTGCTGGCGTTGGT 327
Qy 350 GGATGCTACTTCAAGACAGCCCTCTTCGAGACTGTGCTTGGCTCCATCTCAGTGTG 409
Db 328 GGCTGCTATTTTCCGACGCTACTGTTTGGATGCTGCTGGCCCTCAGTGTGCAAGCTG 387
Qy 410 ACCACGGTTAGCGTAGAGCGCTATGTGGCATTGTCCACCTTTCCGAGGCAAGCTGGAG 469
Db 388 ACTGCCCTGAGGTGGAACGCTATGTGCCGTGTGACCCACTCCAGGCCAGGTCCATG 447
Qy 470 AGCAGCGGGACAGGGCCCTCAGGATCTTCAGCCTAGCTGAGGCTTCTGTGGTCTTT 529
Db 448 GTGACGGGGGCCATGTGCGCGAGTGTGGGGCCCTGTGGGGCTTGGCATGCTCTGC 507
Qy 530 TCTTTGCCCAATACCAACATCCATGATGATGATGATGATGATGATGATGATGATGATG 589
Db 508 TCCCTGCCCAACACCGAGCTGACGGGATCGGAGCTGCGAGCTGCGGCTGCGGGGCCA 567
Qy 590 GTACTGGCTCAGCGACCTGCACAGTGCACCAACCCATGTGGGTGATTAATGATCATC 649
Db 568 GTGCCACACTCAGCTGTTTGCATGCTGTGCTGCCCGCCAGCGGCTCTACACATGGTAGT 627
Qy 650 CAGCTACAGCTTCTCTTCTACATCTCCCAATGACCTCATCAGGCTCTCTCTACTAC 709
Db 628 CAGACCAACCGGCTGCTCTTCTGCTGCTGCCATGGCCATCATGAGCGTCTCTACCTG 687
Qy 710 CTCATGGGCTCAGGCTGAAGAGATGA-----ATCCCTTGAGGCGGAACAAGT 759
Db 688 CTATTTGGGTGCGACTGCGGGGAGAGAGCTGCTGCTCATGAGGAGGCCAAGGGCAGG 747
Qy 760 GGCTGTAATATTACAGACCCCTCTAGAAAGTCAGTCAAC----- 799
Db 748 GGCTCTCAGCAGCCAGGCTCCAGATACACCTGCAGGCTCCAGCAGCACGATCGGGGCCG 807
Qy 800 -----AAGATGCTGTTGTTGCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 847
Db 808 AGACAAGTGAAGAGATGCTGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 867
Qy 848 TTCCATGTGACCGGCTCTTCTTTCAGCTTGTGGAAGAGTGGACAGAGTCCCTGGCTGCT 907
Db 868 TTCCACGCCACCGCTCATGTGGAGGCTGCTGACAGTGGACAGATGGCTGCACCTG 927
Qy 908 GTGTTCAACCTCATFCCATGTTGATATCAGTGTCTCTTTTATCTGAGCTCCCGGGTCAAC 967
Db 928 GCCTTCCAGCAGCTGACGCTCATCTCGGCATCTCTCTACCTGGGCTCGGGGCCAAC 987
Qy 968 CCCATTATATTAACCTCTCTGCGGCTTCCGGGCGGCTTTCGAATGTTGCTGCTC 1027
Db 988 CCGGTGCTCTATAGCTCTATGTCAGCGGCTTCCGAGAGACCTTCCAGGAGGCCCTGTGC 1047
Qy 1028 C 1028
Db 1048 C 1048

RESULT 5
US-09-170-496D-209
; Sequence 209, Application US/09170496D
; Patent No. 6555339
; GENERAL INFORMATION:

; APPLICANT: Behan, Dominic P.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Liaw, Chen W.
; TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Prote
; TITLE OF INVENTION: Receptors
; FILE REFERENCE: AREN-0040
; CURRENT APPLICATION NUMBER: US/09/170.496D
; CURRENT FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 209
; LENGTH: 1101
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-170-496D-209

Query Match 10.9%; Score 134.4; DB 4; Length 1101;
Best Local Similarity 50.3%; Pred. No. 6.4e-28;
Matches 439; Conservative 0; Mismatches 421; Indels 12; Gaps 4;

Qy 140 GTGTCGTGGCCTATGCGCTGATCTTCTGTGGGGGTAAATGGCAATCTTCTGTGTGC 199
Db 136 GTACACCCACCTGCTGGGACACTTCTGTGGGTATCGCTGGCAACCTGCTCACCATG 195
Qy 200 ATGCTGATTTCTCCGACATCAGACTTTGAAGACACCCACCAACTACTATCTTTCAGCTTG 259
Db 196 CTGGTGTGTGCGGCTTCCGCGAGCTGCGCACCAACCAACCTTACCTGTCCAGCATG 255
Qy 260 GCAGTCTCAGATCTGCTGCTGCTTGGGATGCTCTGGAATCTAGGAGATGTGG 319
Db 256 GCCTTCTCCGATCTGCTCATCTTCTCT--GCATGCCCTGGACCTGCTTGGCTCTGG 312
Qy 320 CACAATTACCTTTCTTCTGGGCTGTGGGATGCTTCAAGACAGCCCTCTTCGAG 379
Db 313 CAGTACCGGCCCTGGAACTTTCGGGACCTCTCTGCAAACTCTTCCAATTCGTCAGTGAG 372
Qy 380 ACTGTGTGCTTTGCTCCATTTCTCAGTGTCCACACGGTTAGCGTAGAGCGCTATGTGCC 439
Db 373 AGCTGCACCTACGACCGGTGCTCACCATCACAGCGCTGAGCGTCTACTTTCGCC 432
Qy 440 ATTGTCACCTTTCCGAGCCAGCTGAGAGCAGCGGCGAGCGGCTCAGGATCTC 499
Db 433 ATCTGCTTCCCATCTCCGGGCCAAGTGGTGGTCAACAAAGGGGGGTGAAGCTGGTCACT 492
Qy 500 AGCTTGTGCTGAGCTTCTCTGCTGCTTCTTTCGCAATACACAGCATCCATGGCATC 559
Db 493 TTCTGCTATCGGCGGTGGCTTCTGCGAGCGCGGCGCCATCTTCTGCTAGTGGGGTG 552
Qy 560 AAGTTCAGCAGCTTTCCCAAGCGGCTCTCGTACCTGGCTCAGGCTCAGCAGTCAACC 619
Db 553 GAGCAGGAGAACGCGACCGCCCTTGGGACACCAACGAGTGGCGCCCGCCAGAGTTTGGC 612
Qy 620 AAACCATGTTGGGTATATCTTACATCATCCAGCTACAGCTTCCCTTCTACATCTC 679
Db 613 GTGGCTGCTGAGCTGCTCAGGCTATGGTGTGGTGTCCAGCATCTTCTTCT---TCCTT 669
Qy 680 CCAATGACCTCATCAGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 739
Db 670 CCTGCTTCTCTCAGGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 729
Qy 740 TCCCTTGAAGCGGAACAAAGTGGCTGTGAATATTCACAGACCCCTCTAGAAAGTCACTACC 799
Db 730 CGGGGGGCTGCTGCTGGGTGCTGCTCAGGAGCCAGAAC---ACAAGCAACCAAG 786
Qy 800 AAGATGCTGTTTCTTGGTCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGC 859
Db 787 AAAATGCTGCTGTAGTGGTGTGGCTTTCATCTCTGCTGGCTTCCCTTCCAGTAGGG 846
Qy 860 CG---GCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 916
Db 847 CGATATTTATTTTCCAAATCTTTGAGCCCTGGCTCTTGGAGATTTGCTCAGATCAGCCAG 906
Qy 917 CTATCCATGTGTATCAGGTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 976

Db 907 TACTGCAACCGTGTCTCTTTGTCTCTTACCTCAGTGTGCGCATCAACCCCATCTG 966
Qy 977 TATAACCTCCCTGCTCGCGCGCTTCGGGCGGC 1008
Db 967 TACAACATCATGTCCAAGAAGTACCGGTGCG 998

RESULT 6
US-09-077-675A-15
; Sequence 15, Application US/09077675A
; Patent No. 6242199
; GENERAL INFORMATION:
; APPLICANT: Pai, Lee-Yuh
; APPLICANT: Feighner, Scott C.
; APPLICANT: Howard, Andrew D.
; APPLICANT: Pong, Sheng-Shung
; APPLICANT: Van Der Ploeg, Leonardus H.T.
; TITLE OF INVENTION: RECEPTOR ASSAY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.
; CITY: Rahway
; STATE: NJ
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/077.675A
; FILING DATE: 3-JUN-1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Cocuzzo, Anna L.
; REGISTRATION NUMBER: 42,452
; REFERENCE/DOCKET NUMBER: 19590P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 732-594-1273
; TELEFAX: 732-594-4720
; TELEX:
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1092 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
US-09-077-675A-15

Query Match 10.8%; Score 133.2; DB 3; Length 1092;
Best Local Similarity 50.3%; Pred. No. 1.4e-27;
Matches 439; Conservative 0; Mismatches 418; Indels 15; Gaps 4;

Qy 140 GTGCTGTGGCTATGGCTGATCTTCTGTGGGGGTAAATGGGAATCTTCTGTGGTGTG 199
Db 133 GTCACCGCCACTCGGTGGCGCTCTTGTGTGGGCATCTCAGGCAACCTGCTCAGTATG 192
Qy 200 ATGTGATGTCCGACATCAGACTTTGAAGACACCCACCACTACTCTTTCAGCTTG 259
Db 193 CTGTGTGTGTCCTCCGCGAGCTCGGCACCAACCACTCTACCTGTCCAGCATG 252
Qy 260 GCAGTCTCAGATCTGCTGGTCTCTTGGGGATGCTCTGGAAATCTAGGATGTGG 319
Db 253 GCCTCTCGGATCTGCTACTTCC---TGTGCTGCGCTGGACCTCGCTCGCTCTGG 309
Qy 320 CACAATTACCTTTTCTGCGGCGCTGTGGATGCTACTTCAAGACAGCGCTCTTCGAG 379

Db 310 CAGTACGGCGCCTGGAACCTTCGGGAGCCTGTCTGCAAACTCTTCCAGTTTGTGAGCGAG 369
Qy 380 ACTGTGTCTTGTCTCCATTTCTCAGTGTCTACACAGGTTAGCGTAGAGCGCTATGTGCGC 439
Db 370 AGCTGCACCTACGCCACGGTCTCACCATACCGCGGTGAGCGGTGAGCGGTACTTTCGCC 429
Qy 440 ATTGTCCACCTTTTCCGAGCAAGCTGGAGAGCAGCGCGGCGAGCGGCCCTCAGGATCCTC 499
Db 430 ATCTGTCTCCCTCTCGCGGCCAAGGTGTGTCTACTAAGGGCCGCGTGAAGCTGTGTCATC 489
Qy 500 AGCCTAGTCTGGAGCTTCTGTGTGTCTTTTGTGCCCCAATACACAGATCATGCGGATC 559
Db 490 CTTGTCTATCTGGCGCGTGTCTTCTGACAGCGCGGCCCATCTTCTGTGTCTGTGTGGCGTG 549
Qy 560 AAGTTCCAGCACTTTTCCCAACGGGTCTCTGCTGCTCAGCCACCTGCACAGTCAACC 619
Db 550 GAGCAGCAAAACGGCAGATCCCGGGGACACCAACGAATGCCGGGCCACCGAGTTTCGCT 609
Qy 620 AAACCCATGTGGGTGTATACTTGTATCATCAAGCTACACAGCTTCTCTTCTACATCCTC 679
Db 610 GTGCGCTCTGGGCTGCTCACCCTCATGTGTGGGTGTCACAGCTCTTCTTCTCTCT 666
Qy 680 CCAATGACCTTCATCAGCGTCTCTACTACTCATGTTGGGGCTCAGGCTGAAGAGAGATGAA 739
Db 667 CCGGTCTTCTGCTCTACTGTCTCTACAGTCTCATCGGAGGAAGCTATGGCGGAGACGC 726
Qy 740 TCCCTTGAGGCGAACAAGTGGCTGTGNAATATTACAGACCCCTCTAGAAAGTCACTCACC 799
Db 727 GGAGATGACGCGGTGGGCGCTCTCGCGGACACAGAACACAC-----AAGCAGACAGTG 780
Qy 800 AAGATGCTGTTGTCTTGGTCTCGTGTGTCATCTGTCGACCCCTTCCATGTGGAC 859
Db 781 AAGATGCTGCTGTGGGTGCTTGTGCTTCTCTCTGCTGCTGCGCTTCCAGCTGGGA 840
Qy 860 CG---GCTCTTCTTTCAGCTTTGTGGAAGAGTGGAGAGTCCCTGGCTGTGTGTTCAC 916
Db 841 AGATACCTCTTTTCCAAGTCTCTCGAGCTGGCTCTCTGGAGATCGCTCAGATCAGCCAG 900
Qy 917 CTGATCCATGTGGTATCAGGTGTCTTCTTTATCTGAGCTCGCGGTCAACCCCATTTATC 976
Db 901 TACTGCAACCTGTGTCTCTTTGTCTCTTCTACCTCAGCGCTGCCATCAACCCCATTTCTG 960
Qy 977 TATAACCTCTCTCTCGCGCTTCGGGCGGC 1008
Db 961 TACAACATCATGTCCAAGAAGTACCGGTGCG 992

RESULT 7

US-09-077-674-15
; Sequence 15, Application US/09077674
; Patent No. 6531314
; GENERAL INFORMATION:
; APPLICANT: Arena, Joseph P.
; APPLICANT: Cully, Doris F.
; APPLICANT: Feighner, Scott D.
; APPLICANT: Howard, Andrew D.
; APPLICANT: Liberator, Paul A.
; APPLICANT: Schaeffer, James M.
; APPLICANT: Van Der Ploeg, Leonardus
; TITLE OF INVENTION: GROWTH HORMONE SECRETAGOGUE RECEPTOR FAMILY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.
; CITY: Rahway
; STATE: NJ
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS

SOFTWARE: FASTSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/077,674

FILING DATE: 3-JUN-1998

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Cocuzzo, Anna L.

REGISTRATION NUMBER: 42,452

REFERENCE/DOCKET NUMBER: 19589P

TELECOMMUNICATION INFORMATION:

TELEPHONE: 732-594-1273

TELEFAX: 732-594-4720

TELEX:

INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:

LENGTH: 1092 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

US-09-077-674-15

Query Match 10.8%; Score 133.2; DB 4; Length 1092;

Best Local Similarity 50.3%; Pred. No. 1.4e-27;

Matches 439; Conservative 0; Mismatches 418; Indels 15; Gaps 4;

```
QY 140 GTCTGTGTCGCTATCGCTGATCTCTCTGTTGGGGTATGGCAACTCTTCTGTTGTC 199
DB 133 GTACCGCCACCTCGCTGGCGCTCTGTTGGGATCTCAGGCAACCTGCTCACTATG 192
QY 200 ATGGTATGTCGCGATCATGAGCTTTGAAGACACCCACCACTACTATCTCTCAGCTG 259
DB 193 CTGGTGGTGTCCGCTTCCGCGAGCTGCGCACCCACCACTACTCTCTGTCGACGATG 252
QY 260 GCAGTCTCAGATCTGCTGCTCTCTCTGTTGGGATCTCTGAAATCTACAGAGATGTTG 319
DB 253 GCCTTCTCGGATCTGCTCATCTTCC---TGTGATGCGCTGACCTCGTCCGCTCTGG 309
QY 320 CACAATACCTTCTCTGTTGGGCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 379
DB 310 CAGTACCGGCTCTGGAACCTCTGCGGACCTCTCTGCAAACTCTTCCAGTTTGTGAGCG 369
QY 380 ACTGTGTGCTTTCCCTCCATCTCTCAGTGTACACAGCTTAGCTAGAGCGCTATGTGGCC 439
DB 370 AGCTGACCTACCGCAGGCTCTCACCATCACCCTGAGCGCTGAGCGCTACTTCGCC 429
QY 440 ATTGTCACCTTTCCGAGCCAAAGCTGGAGACACGCGGCGAGCGGCTCTCAGGATCCTC 499
DB 430 ATCTGCTTCCCTCTGCGGGCAAGTGGTGTCTACTAAGGCGCGTGAAGCTGTGTCATC 489
QY 500 AGCTTGTGAGCTGCTCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 559
DB 490 CTGTCATCTGCGGCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 549
QY 560 AAGTTCGAGCTTTCCACAGGCTCTCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 619
DB 550 GAGCAGCAAAAGCGCAGATGCTCCCGGACACCAAGAAATGCGCGCCACCGAGTTGCT 609
QY 620 AAACCCATGTGGTGTATACCTTGTATCTCAAGCTACCAAGCTACCAAGCTACCAAGCT 679
DB 610 GTGCGCTGTTGCTGCTACCGCTGATGGTGTGGGTGTCCAGCGCTCTCTCTCTCTCT 666
QY 680 CCAATGACCTCATACAGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 739
DB 667 CCGGTCTTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 726
QY 740 TCCCTTGAGGCGCAAAAGTGGTGTGTAATATTCACAGACCTCTCTCTCTCTCTCTCT 799
DB 727 GGAGATGACGCGGTGGCGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 780
```

```
QY 800 AAGATGCTGTTTGTCTGTTGCTCTGTTGCTGTTGCTGTTGCTGTTGCTGTTGCTGTTG 859
DB 781 AAGATGCTGCTGCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 840
QY 860 CG---GCTCTTCTTACAGCTTTTGGAGAGAGTGGACAGAGTCCCTGGGCTGCTGTGTTCAAC 916
DB 841 AGATAGCTCTTTTCCAAGTCTTTCGAGGCTGCTTCTGAGATCGCTCAGATCAGCCAG 900
QY 917 CTATCATCATGTGCTATCAGTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 976
DB 901 TACTGCAACCTGGTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 960
QY 977 TATAAGCTCTGCTCTGCGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1008
DB 961 TACAACATCATGTCCAGAGAGTACCGGCTGCC 992
```

RESULT 8

US-09-077-675A-6

Sequence 6, Application US/09077675A

Patent No. 6242199

GENERAL INFORMATION:

APPLICANT: Pal, Lee-Yuh

APPLICANT: Feighner, Scott C.

APPLICANT: Howard, Andrew D.

APPLICANT: Pong, Sheng-Shung

APPLICANT: Van Der Ploeg, Leonardus H.T.

TITLE OF INVENTION: RECEPTOR ASSAY

NUMBER OF SEQUENCES: 16

CORRESPONDENCE ADDRESS:

ADDRESSEE: Merck & Co., Inc.

STREET: P.O. Box 2000, 126 E. Lincoln Ave.

CITY: Rahway

STATE: NJ

COUNTRY: USA

ZIP: 07065-0900

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FASTSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/077,675A

FILING DATE: 3-JUN-1998

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Cocuzzo, Anna L.

REGISTRATION NUMBER: 42,452

REFERENCE/DOCKET NUMBER: 19590P

TELECOMMUNICATION INFORMATION:

TELEPHONE: 732-594-1273

TELEFAX: 732-594-4720

TELEX:

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 1088 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

US-09-077-675A-6

Query Match 10.8%; Score 132.8; DB 3; Length 1088;

Best Local Similarity 50.2%; Pred. No. 1.8e-27;

Matches 438; Conservative 0; Mismatches 422; Indels 12; Gaps 4;

```
QY 140 GTCTGTGTCGCTATCGCTGATCTCTCTGTTGGGTAATGGCAACTCTTCTGTTGTC 199
DB 123 GTACAGCCACCTGCTGTCGCTGTCGCTGTCGCTGTCGCTGTCGCTGTCGCTGTCGCTG 182
```

QY 200 ATGGTGATGTCGACATCAGACTTTGAAGACACACCACCACTACTATCTCTTCAAGTGG 259
Db 183 CTGGTGGTTCGCGCTTCGCGAGCTGGCGACACCAACCACTTACCTGTCCAGCATG 242
QY 260 GCAGTCTCAGATCTCGTCTGCTCTGGGATGCTCTGGAATCTACGAGATGG 319
Db 243 GCCTTCTCGATCTCCTATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 299
QY 320 CAAATTAACCTTTCTCTGGGCTCTGGGATGCTACTTCAAGACAGCCCTCTTCGAG 379
Db 300 CAGTACCGGCTTGAACCTTGGGACCTCTCTGCAAACTCTTCCAACTTCTGTCAGTGG 359
QY 380 ACTGTGCTTTGGCTTCCATCTCAGTGTACACAGGTTAGGTAGAGGCTATGTGGCC 439
Db 360 AGCTGCACCTACGACGCTGCTACCATCAGAGGCTGAGGCTGAGGCTGAGGCTTCCGCC 419
QY 440 ATTGTCCACCTTTCCGAGCAAGCTGGAGACGCGGCGGAGGCTCAGGATCTC 499
Db 420 ATCTGCTTCCCACTCCGGGCAAGGTGGTGCACCAAGGGGGGTGAAGTGTGTATC 479
QY 500 AGCCTAGTCTGAGGCTTCTCTGTGCTTTCTTTTGGCCCAATACCAAGATCCATGGCATC 559
Db 480 TTCGTCTATCTGGGCTGGGCTTCTGACGCGGCGGCTTCTGCTAGTCTGAGGCTG 539
QY 560 AAGTTCACGACTTTCCCAAGGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 619
Db 540 GAGCAGGAGACGCGACGACCTTGGGACACCAACAGTGGCGGCGGCTGAGGCTTGGG 599
QY 620 AAACCCATGTGGGTATTAATCTGATCATCAAGCTTACAGCTTCTCTCTCTCTCTCTCT 679
Db 600 GTGGCTCTGGACTCTCAGGCTCATGTGTGGTGTCCAGCATCTTCTCTCTCTCTCTCT 656
QY 680 CCAATGACCTCTCAGGCTCTCTACTTACCTCATGCGGCTCAGGCTGAAGAGATGAA 739
Db 657 CTGTCT 716
QY 740 TCCCTTGAAGGCAAAAGTGGCTGTGAATATTCACAGACCTCTAGAAAGTCACTAC 799
Db 717 CGCGGATGCTGCTGGTGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 773
QY 800 AGATGCT 859
Db 774 AAATGCTGGGCTGAGTGGTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 833
QY 860 CG--GCT 916
Db 834 CGATATTTATTTTCAATCTCTTTCAGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCT 893
QY 917 CTCATCCATGGTATCAGGCT 976
Db 894 TACTGCAACCTGCTGCT 953
QY 977 TATAACCT 1008
Db 954 TACAACATCATCTCCAAAGTACCGGGTGGC 985

RESULT 9
US-09-077-674-6
; Sequence 6, Application US/09077674
; Patent No. 6531314
; GENERAL INFORMATION:
; APPLICANT: Arena, Joseph P.
; APPLICANT: Cully, Doris F.
; APPLICANT: Feighner, Scott D.
; APPLICANT: Howard, Andrew D.
; APPLICANT: Liberator, Paul A.
; APPLICANT: Schaeffer, James M.
; APPLICANT: Van Der Ploeg, Leonardus
; TITLE OF INVENTION: GROWTH HORMONE SECRETAGOGUE RECEPTOR FAMILY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.

STREET: P.O. Box 2000, 126 E. Lincoln Ave.
CITY: Rahway
STATE: NJ
COUNTRY: USA
ZIP: 07065-0900
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/077,674
FILING DATE: 3-JUN-1998
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Cocuzzo, Anna L.
REGISTRATION NUMBER: 42,452
REFERENCE/DOCKET NUMBER: 19589P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 732-594-1273
TELEFAX: 732-594-4720
TELEX:
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1088 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-09-077-674-6
Query Match 10.8%; Score 132.8; DB 4; Length 1088;
Best Local Similarity 50.2%; Pred. No. 1.8e-27;
Matches 438; Conservative 0; Mismatches 422; Indels 12; Gaps 4;
QY 140 GTGCTGTGGCTATCGCTGATCTTCTGTGGTGGGTAATGGCAATCTTCTGTGTGC 199
Db 123 GTCACAGCCACTCGCTGGCACTCTTGTGGTGGTATCGCTGGCACTGCTCACCATG 182
QY 200 ATGTGATTTGTCGACATCAGACTTTGAAGACACCAACCACTACTATCTCTTCAAGTGG 259
Db 183 CTGTGGTGTGCGCTTCCGAGCTCGCAGCACCACCACTCTACCTGTCCAGCATG 242
QY 260 GCAGTCTCAGATCTGCTGCTCTTGGGATGCTCTGGAATCTACGAGATGG 319
Db 243 GCCTTCTCGATCTGCTCATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 299
QY 320 CAAATTAACCTTTCTCTGCGGCTCTGTGGATGCTACTTCAAGACAGCCCTCTTCGAG 379
Db 300 CAGTACCGGCTTGAACCTTGGGACCTCTCTGCAAACTCTTCCAACTTCTGTCAGTGG 359
QY 380 ACTGTGCTTTGGCTTCCATCTCAGTGTACACAGGTTAGGTAGAGGCTATGTGGCC 439
Db 360 AGCTGCACCTACGCGACGCTGCTCACCATCAGAGGCTGAGGCTGAGGCTTCTCTCTCTCT 419
QY 440 ATTGTCCACCTTTCCGAGCAAGCTGGAGACGCGGCGGAGGCTCAGGATCTC 499
Db 420 ATCTGCTTCCCACTCCGGGCAAGGTGGTGCACCAAGGGGGGTGAAGTGTGTATC 479
QY 500 AGCCTAGTCTGAGGCTTCTCTGTGCTTTCTTTTGGCCCAATACCAAGATCCATGGCATC 559
Db 480 TTCGTCTATCTGGGCTGGGCTTCTGACGCGGCGGCTTCTCTGCTAGTCTGAGGCTG 539
QY 560 AAGTTCACGACTTTCCCAAGGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 619
Db 540 GAGCAGGAGACGCGACGACCTTGGGACACCAACAGTGGCGGCGGCTGAGGCTTGGG 599
QY 620 AAACCCATGTGGGTATTAATCTGATCATCAAGCTTACAGCTTCTCTCTCTCTCTCTCT 679
Db 600 GTGGCTCTGGACTCTCAGGCTCATGTGTGGTGTCCAGCATCTTCTCTCTCTCTCTCT 656

aps	4:
GTGC	199
GATG	157
CTTG	259
CATG	217
GTGG	319
CTGG	274
CGAG	379
CGAG	334

Qy 380 ACTGTGCTGCTTCCCTCCATTTCTCAGTGTCAACACGGTTAGCGTAGAGCGCTATGTGGCC 439
Db 335 AGTGCACCTACGCCACAGTCTCACCATCACCAGCTGAGCGTGCAGCGCTACTTCGCC 394
Qy 440 ATTGTCCACCTTTCCGAGCAAGCTGAGAGCAGCGGCGGACGGGCGCTCAGAGATCCTC 499
Db 395 ATCTGCTCCGCTGCGGGCAAGTAGTGTCACCAAGGCGGGTAAAGCTGGTCATC 454
Qy 500 AGCTAGTCTGAGCTTCTCTGTGGTCTTTCTTTGGCCCAATACCAAGCATCCATGGCATC 559
Db 455 CTGCTCATCTGGGCGGTGGCTCTCTGAGCGCGGGCCCATCTTCTGCTGGTGGGAGTG 514
Qy 560 AAGTTCAGCACTTTCCCAAGGGTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 619
Db 515 GAGCATGATAAGGCACTGACCTCGGACACCAACAGTGGCGCGGACGGAGTTGCC 574
Qy 620 AAACCCATGTGGGTATATCTGATCATCAAGCTACCAAGCTTCTCTTCTACATCCTC 679
Db 575 GTGGCTCCGGGCTGCTTACCGTCATGGTCTGGGTGCTCCAGTGTCTTCTTCTTCT 631
Qy 680 CCAATGACCTCATCAGCGTCTCTACTACTCTCATGGGCTCAGGCTGAAGAGATGAA 739
Db 632 CTGCTCTTCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 691
Qy 740 TCCCTTGAGCGCAACAAGTGGTGTGAATATTACAGACCCCTCTAGAAAGTCAAGTCAAC 799
Db 692 CGCGGCGAGCGGGTGGCTCTCTGCTCAGGACCAACCAACCAACCAACCAACCGT 748
Qy 800 AAGATGCTGTTGCTTGGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 859
Db 749 AAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 808
Qy 860 CG---GCTCTTCTTCACTTTTGGAGAGTGGAGAGTGGAGAGTGGAGTGGAGTGGAGTGGAG 916
Db 809 CGATATTTATTTCCAAATCTTGGAGCCTGGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 868
Qy 917 CTATCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 976
Db 869 TACTGCAACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 928
Qy 977 TATAACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1008
Db 929 TACAACATCATGTTCCAAAGAGTATCGGGTGGC 960

RESULT 13
US-09-077-674-1
; Sequence 1, Application us/09077674
; Patent No. 6531314
; GENERAL INFORMATION:
; APPLICANT: Arena, Joseph P.
; APPLICANT: Cully, Doris F.
; APPLICANT: Feighner, Scott D.
; APPLICANT: Howard, Andrew D.
; APPLICANT: Liberator, Paul A.
; APPLICANT: Schaeffer, James M.
; APPLICANT: Van Der Ploeg, Leonardus
; TITLE OF INVENTION: GROWTH HORMONE SECRETAGOGUE RECEPTOR FAMILY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.
; CITY: Rahway
; STATE: NJ
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/077,674
FILING DATE: 3-JUN-1998
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Cocuzzo, Anna L.
REGISTRATION NUMBER: 42,452
REFERENCE/DOCKET NUMBER: 19589P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 732-594-1273
TELEFAX: 732-594-4720
TELEX:
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1063 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-09-077-674-1
Query Match 10.4%; Score 128; DB 4; Length 1063;
Best Local Similarity 49.9%; Pred. No. 3.9e-26;
Matches 435; Conservative 0; Mismatches 425; Indels 12; Gaps 4;
Qy 140 GTGTCTGTGGCTATGCGCTGATCTTCTGTGGGGGTAAATGGCAATCTTCTGTGTGC 199
Db 98 GTACCCGCCACCTGCTGCTGGGCTCTTCTGTGGGTATCGGGCAACCTGCTCAGCATG 157
Qy 200 ATGCTGATGTCGCACATCAGACTTTCAAGACACCCACCAACTACTATCTCTTCTCAGCTTG 259
Db 158 CTGGTAGTGTACGCTTCCGCGAGATGCGCACCAACCAACCTCTACCTGTCCAGGATG 217
Qy 260 GCAGTCTCAGATGTGCTGCTGCTTGGGATGCTCTGGAATCTTACGAGATGTGG 319
Db 218 GCCTTCTCCGACCTACTCTCTCTCT---GCATGCCCTCGACCTCTTCCGCTCTGG 274
Qy 320 CACATTTACCTTTCTCTGCTGGGCTGTGGGATGCTTCAAGACAGGCTCTTTCGAG 379
Db 275 CAGTACCGGCTTGGAACTTGGCACTGCTCTGCAACTCTTTCAGTGTGTTAGCGAG 334
Qy 380 ACTGTGTGCTTTGCTCTCCATTTCTCAGTGTCAACACGGTTAGCGTAGAGCGCTATGTGGCC 439
Db 335 AGCTGCACCTACGCCACAGTCTCACCATCACCAGCTGAGCGTGCAGAGCTACTTCGCC 394
Qy 440 ATTGTCCACCTTTCCGAGCAAGCTGAGAGCAGCGGCGGACGGGCGCTCAGAGATCCTC 499
Db 395 ATCTGCTTCCGCTGCGGGCAAGTAGTGTCACCAAGGCGGGTAAAGCTGGTCATC 454
Qy 500 AGCTAGTCTGAGCTTCTCTGTGGTCTTTCTTTGGCCCAATACCAAGCATCCATGGCATC 559
Db 455 CTGCTCATCTGGGCGGTGGCTCTTCTGAGCGCGGGCCCATCTTCTGCTGGTGGGAGTG 514
Qy 560 AAGTTCAGCACTTTCCCAAGGGTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 619
Db 515 GAGCATGATAAGGCACTGACCTCGGACACCAACAGTGGCGCGGACGGAGTTGCC 574
Qy 620 AAACCCATGTGGGTATATCTGATCATCAAGCTACCAAGCTTCTCTTCTACATCCTC 679
Db 575 GTGCGCTCCGGGCTGCTTACCGTCATGGTCTGGGTGCTCCAGTGTCTTCTTCTTCT 631
Qy 680 CCAATGACCTCATCAGCGTCTCTACTACTCTCATGGGCTCAGGCTGAAGAGATGAA 739
Db 632 CTGCTCTTCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 691
Qy 740 TCCCTTGAGCGCAACAAGTGGTGTGAATATTACAGACCCCTCTAGAAAGTCAAGTCAAC 799
Db 692 CGCGGCGAGCGGGTGGCTCTCTGCTCAGGACCAACCAACCAACCAACCAACCGT 748
Qy 800 AAGATGCTGTTGCTTGGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 859
Db 749 AAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 808

;/ CURRENT APPLICATION DATA:
;/ APPLICATION NUMBER: US/09/077,674
;/ FILING DATE: 3-JUN-1998
;/ CLASSIFICATION: 536
;/ PRIOR APPLICATION DATA:
;/ APPLICATION NUMBER:
;/ FILING DATE:
;/ ATTORNEY/AGENT INFORMATION:
;/ NAME: Cocuzzo, Anna L.
;/ REGISTRATION NUMBER: 42,452
;/ REFERENCE/DOCKET NUMBER: 19589P
;/ TELECOMMUNICATION INFORMATION:
;/ TELEPHONE: 732-594-1273
;/ TELEFAX: 732-594-4720
;/ TELEX:
;/ INFORMATION FOR SEQ ID NO: 11:
;/ SEQUENCE CHARACTERISTICS:
;/ LENGTH: 836 base pairs
;/ TYPE: nucleic acid
;/ STRANDEDNESS: single
;/ TOPOLOGY: linear
;/ MOLECULE TYPE: cdna
;/ US-09-077-674-11

Query Match 8.4%; Score 103.4; DB 4; Length 836;

Best Local Similarity 49.1%; Pred. No. 2.6e-19;

Matches 362; Conservative 0; Mismatches 366; Indels 9; Gaps 3;

QY	275	CTGGTCTCTCTTGGGGATGCTCTGGAAATCTAGCAGATGGGCACAAATTACCCCTTTC	334
DB	3	CTGCTCATCTTCTCTGTCATGCCCTGGACCTCGTTCCGCTCTGGCAGTACCGGCCCTGG	62
QY	335	CTGTTCCGGCGCTCTGGGATGCTACTTCAAGACAGCCCTCTTCGAGACTGTGTCTTTGCC	394
DB	63	AACCTCGCGACCTCTCTGCAACCTCTTCCAAATTCGTAGTGAGAGCTGCACCTACGCC	122
QY	395	TCCATTCTCAGTGTACACGGTTAGCGTAGAGCGGTATGTGGCCATTTGCCACCCCTTC	454
DB	123	ACGGTGTCTACCATCACAGCGCTGAGCGTCGAGCGCTACTTGCCTCTGCTTCCCACTC	182
QY	455	CGAGCCCAAGCTGAGAGCAGCGCGGCGACGGGCCCTCAGGATCCTCAGCCTAGTCTGGAGC	514
DB	183	CGGGCCCAAGGTGTGTGTACACCAAGGGCGGGTGAAGCTGGTCATCTCTGTCATCTGGGC	242
QY	515	TTCTCTGTGTCTTTTCTTTTGGCCCAATACGAGATCCATGGGATCAAGTTCCAGCACCTT	574
DB	243	GTGGCCCTTCGAGCGCCCGGCCCATCTTCGTCTAGTGGGGTGGAGCAGAGAACGGC	302
QY	575	CCCAACGGGTCTCTCTACCTGCTCAGCCACTGACAGTGCACAGTCAACCAACCCCATGTGGGTG	634
DB	303	ACGACCTTGGGACACCAACAGAGTCCCGCCCGCCAGGTTTGGCGTGGCTCTGGACTG	362
QY	635	TATACTTTCATCCAAAGCTACCAAGCTTCCCTCTTCTATCTCTCCCAATGACCCCTCATC	694
DB	363	CTCACGGTCTAGTGTGGGTGTCCAGCATCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	419
QY	695	AGCGTCTCTACTACCTTGGGGCTCAGGCTGAGAGAGATGAATCCCTTGAGGGGAAC	754
DB	420	ACGGTCTCTACAGTCTCATCGCAGAGAGCTGTGGCGAGGAGCGCGCGATGCTGTC	479
QY	755	AAGTGGGTGTGAATATTACAGACCTCTAGAAATCAGTCAACCAAGATGCTGTTTGTG	814
DB	480	---GTGGGTGCTCTGCTCAGGGACCAAGAACCAACCAACCGTGAATAATGCTGGCTGTA	536
QY	815	TTGGTCTCTGTGTTTGGCATCTGCTGACCCCTTCCATGTGGACCG---GCTCTTCTTC	871
DB	537	GTGGGTGTTGCTCTCATCTCTGCTGGCTCCCTTCCAGCTAGGGCGATATTATTATTTCC	596
QY	872	AGCTTTTGTGAAGAGTGGACAGAGTCCCTGGGTGCTGTGTTCAACCTCATCCATGTGGTA	931
DB	597	AAATCCCTTTGAGCCTGGCTCTGGAGATTGCTCAGATCAGCCAGTACTGCAACCTCGTG	656
QY	932	TCAGGTGTCTTCTTTTATCTAGCTCCGGGGTCAACCCCATATTATTAACCTCTGTCT	991

Db	657	TCCTTTGTCTCTTCTACCTCAGTGTGCCATCAACCCCATTTCTGTACAACATCATGTCC	716
QY	992	CGCGCGCTTCGGGCGGCG	1008
DB	717	AAGAAGTACCGGGTGGC	733

Search completed: August 24, 2003, 13:28:02
Job time : 114.493 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 24, 2003, 13:24:07 ; Search time 374.314 Seconds
(without alignments)
7393.506 Million cell updates/sec

Title: US-09-609-146-24

Perfect score:

Sequence: 1 gttgtggattttaagctcag.....aggagtgggtcagaaggcctc 1231

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1517243 seqs, 1124081882 residues

Total number of hits satisfying chosen parameters: 3034486

Minimum DB seq length: 0

Maximum DB seq length: 200000000
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Loss processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA: *

- ```

1: /cgn2_6/ptodata/1/pubnba/US07_PUBCOMB.seq.*
2: /cgn2_6/ptodata/1/pubnba/PCT_NEW_PUB.seq.*
3: /cgn2_6/ptodata/1/pubnba/US06_NEW_PUB.seq.*
4: /cgn2_6/ptodata/1/pubnba/US06_PUBCOMB.seq.*
5: /cgn2_6/ptodata/1/pubnba/US07_NEW_PUB.seq.*
6: /cgn2_6/ptodata/1/pubnba/PCTUS_PUBCOMB.seq.*
7: /cgn2_6/ptodata/1/pubnba/US08_NEW_PUB.seq.*
8: /cgn2_6/ptodata/1/pubnba/US08_PUBCOMB.seq.*
9: /cgn2_6/ptodata/1/pubnba/US09A_PUBCOMB.seq.*
10: /cgn2_6/ptodata/1/pubnba/US09B_PUBCOMB.seq.*
11: /cgn2_6/ptodata/1/pubnba/US09C_PUBCOMB.seq.*
12: /cgn2_6/ptodata/1/pubnba/US09_NEW_PUB.seq.*
13: /cgn2_6/ptodata/1/pubnba/US10A_PUBCOMB.seq.*
14: /cgn2_6/ptodata/1/pubnba/US10B_PUBCOMB.seq.*
15: /cgn2_6/ptodata/1/pubnba/US10_NEW_PUB.seq.*
16: /cgn2_6/ptodata/1/pubnba/US06_NEW_PUB.seq.*
17: /cgn2_6/ptodata/1/pubnba/US60_PUBCOMB.seq.*

```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

| Result No. | Score | Query |      | Length | DB                 | ID | Description       |
|------------|-------|-------|------|--------|--------------------|----|-------------------|
|            |       | Match |      |        |                    |    |                   |
| 1          | 790.8 | 64.0  | 1248 | 12     | US-10-272-983-11   |    | Sequence 11, Appl |
| 2          | 788   | 68.2  | 1239 | 14     | US-10-225-567A-556 |    | Sequence 556, App |
| 3          | 472.6 | 38.4  | 801  | 11     | US-09-782-974C-17  |    | Sequence 17, Appl |
| 4          | 330.6 | 26.9  | 1212 | 14     | US-10-083-168-13   |    | Sequence 13, Appl |
| 5          | 330.6 | 26.9  | 1212 | 14     | US-10-251-385-113  |    | Sequence 113, App |
| 6          | 330.6 | 26.9  | 1212 | 14     | US-10-225-567A-539 |    | Sequence 539, App |
| 7          | 330.6 | 26.9  | 1212 | 14     | US-10-290-078-16   |    | Sequence 16, Appl |
| 8          | 330.6 | 26.9  | 1212 | 14     | US-10-290-078-17   |    | Sequence 17, Appl |
| 9          | 330.6 | 26.9  | 1535 | 14     | US-10-146-419-12   |    | Sequence 12, Appl |
| 10         | 330.6 | 26.9  | 1535 | 14     | US-10-146-123-12   |    | Sequence 12, Appl |
| 11         | 329   | 26.7  | 1212 | 14     | US-10-083-168-82   |    | Sequence 82, Appl |
| 12         | 329   | 26.7  | 1212 | 14     | US-10-251-385-223  |    | Sequence 223, App |
| 13         | 134.4 | 10.9  | 1101 | 14     | US-10-251-385-209  |    | Sequence 209, App |
| 14         | 132.8 | 10.8  | 1101 | 14     | US-10-251-385-87   |    | Sequence 87, Appl |
| 15         | 114.2 | 9.3   | 1788 | 14     | US-10-270-333-194  |    | Sequence 194, App |
| 16         | 111.4 | 9.0   | 1258 | 9      | US-09-804-551B-25  |    | Sequence 25, Appl |

Sequence 113, App  
Sequence 112, App  
Sequence 472, App  
Sequence 13, App1  
Sequence 14, App1  
Sequence 44, App1  
Sequence 139, App  
Sequence 3, App1  
Sequence 17, App1  
Sequence 19, App1  
Sequence 105, App  
Sequence 21, App1  
Sequence 417, App  
Sequence 752, App  
Sequence 206, App  
Sequence 22, App1  
Sequence 191, App  
Sequence 296, App  
Sequence 317, App  
Sequence 311, App  
Sequence 116, App  
Sequence 3, App1  
Sequence 107, App  
Sequence 16, App1  
Sequence 103, App  
Sequence 21, App1  
Sequence 5, App1  
Sequence 37, App1

## ALIGNMENTS

```

: RESULT 1
: US-10-272-983-11
: Sequence 11, Application US/10272983
: Publication No. US20030148450A1
: GENERAL INFORMATION:
: APPLICANT: Chen, Ruoping
: APPLICANT: Dang, Huong T.
: APPLICANT: Liaw, Chen W.
: APPLICANT: Lin, I-Lin
: TITLE OF INVENTION: Human Orphan G Protein
: FILE REFERENCE: AREN0050
: CURRENT APPLICATION NUMBER: US/10/272,983
: CURRENT FILING DATE: 2002-10-17
: PRIOR APPLICATION NUMBER: US/09/417,044
:

```

22

ORGANISM: Homo sapiens  
US-10-272-983-11

Query Match 64.28; Score 790.8; DB 12; Length 1248;  
Best Local Similarity 79.28; Pred. No. 2e-247;  
Matches 958; Conservative 0; Mismatches 237; Indels 15; Gaps 1;  
QY 17 TCAGTAATGGAAGAACTGAAATGCTTCTCGATCCAC-----GATCCT 61  
DB 4 TCAGGATGGAAGAACTTCAGATGCTTCTGATCTACCCAGAGAACTAGAGATCCA 63  
QY 62 CTGATGAAGTACTGTGAACACGACAGAGAGTACTTGGCCACCTGTGTGGACCCAAAGCGC 121  
DB 64 TTCAGAAACACCTGAACACGACGAGGAGTATCGCCCTTCTCTCGCGACCTCGGCGC 123  
QY 122 AGTGACCTATCCCTTCGGGTGCTGTGGCCATATCGCTGATCTTCTGTGGGGGTAATG 181  
DB 124 AGCCACTTCTTCTCCCGGTCTGTGGTGTATGTGCCAATTTTGTGGGGGTCAAT 183  
QY 182 GGCAATCTTCTGGTGTGATGGTGAATGTCGACATCAGACTTTTGAAGACACCCACCAAC 241  
DB 184 GGCATGTCTGTGTGGTGTGATTCGACACGACGCTATGAAGAGCCGACCAAC 243  
QY 242 TACTATCTTCTAGCTTGGCAGTCTCAGATCTCTGTCTGTCTGTGGGATGCCCTCTG 301  
DB 244 TACTACCTCTTACGCTTGGCGGTCTCTGACCTCTGTCTGTCTGTGGATGCCCTG 303  
QY 302 GAAATCTACGAGATGGGACAAATACCCCTTCTCTCGGCGCTGTGGATGCTACTTC 361  
DB 304 GAGGTCTATGAGATGGGCAACTACCCCTTCTTGTGGGCGCTGTGGCTCTACTTC 363  
QY 362 AAGACAGCCCTCTTCGAGAGTGTGTGCTTTCCTCCATCTCAGTGTACACAGGTTAGC 421  
DB 364 AAGAGCCCTCTTGTGACCGTGTGTGCGCTCCATCTCAGCATCACCCAGCTCAGC 423  
QY 422 GTAGAGCGCTATGTGGCCATGTTCACCCCTTTCGAGCCAAAGTGGAGACACGCGCGA 481  
DB 424 GTGGAGCGCTACGTGGCCATCTTACACCCGTTCCGCGCCAACTGCAGAGCACCCGCGC 483  
QY 482 CGGGCCCTCAGGATCTCAGCTAGTCTGAGCTTCTGTGGCTCTTCTTTTGGCCAAAT 541  
DB 484 CGGGCCCTCAGGATCTCAGCTAGTCTGAGCTTCTGTGGCTCTTCTTTTGGCCAAAT 543  
QY 542 ACCAGCATCATGGCATCAAGTTCACGACTTTCCCAAGCGGTCTCCGTACCTGGCTCA 601  
DB 544 ACCAGCATCATGGCATCAAGTTCACGACTTCTCCCAAGTGGGTCTCCGTCCAGGTTCG 603  
QY 602 GCCACCTGCAGTACCAACCCATGTGGGTGTATTAATTTGATCATATCAAGTACACAGC 661  
DB 604 GCCACCTGTACGGTCAATCAAGCCCATGTGGATCTACAATTTTCAATCATCATCAGGTCC 663  
QY 662 TTCTCTCTTACATCTCCCAATGACCCCTCATCAGGTCTCTCTACTACCTCATGGGCTC 721  
DB 664 TTCTCTTCTACCTCTCCCAATGATGTATCATGCTCTCTACTACCTCATGGGCTC 723  
QY 722 AGCTGAAGAGAGATGAATCCCTTTGAGGCGAACAAGTGGCTGTGAATATTCACAGACCC 781  
DB 724 AGACTAAAGAAAGACAAATCTCTTGAAGCAGATGAAGGAAATGCAATATTCAGACCC 783  
QY 782 TCTAGAAAGTCACTACCAAGATGCTGTGTGCTTGGTCTCTGTGTGGTGTGGCATCTCGTGG 841  
DB 784 TGCAGAAATACAGTCAACAGATGCTGTGTGCTTGTCTTGTCTTGTGTGTCTGTCTGTGG 843  
QY 842 ACCCCCTCTCATGTGACCGGCTCTTCTCAGCTTTGTGAGAGTGGACAGTCCCTCG 901  
DB 844 GCCCGCTTCCATTCAGCCGACTCTTCTCAGCTTTGTGAGAGTGGAGTGAATCCCTCG 903  
QY 902 GCTGCTGTGTCAACCTCATCATGTGGTATCAGGTGTCTTCTTTTATCTGAGCTCCGCG 961  
DB 904 GCTGCTGTGTCAACCTCTGTCATGTGGTGTGAGGTGTCTTCTTCTACCTGAGCTCAGCT 963  
QY 962 GTCAACCCCATTTATTAACCTCTCTGTGGCGCTTCCGGCGGCGCTTCCGAATGTT 1021  
|||||

DB 964 GTCAACCCCATTTATCTATAACCTACTGTCTCGGCTTCCAGGACGATTTCCAGAAATGTG 1023  
QY 1022 GTCTCCCTACCTGCAATGCTGCCATCCCGCATCGGCGACGACAGGACCTCCAGCCGAC 1081  
DB 1024 ATCTCTTCTTCCAAACAGTGGCTCTCCAGCATGACCCAGATGGCCACCTTCCGCGAC 1083  
QY 1082 AAGATCATCTTCTTGACAGAAATGTCACCTCTGTGGAGCTGACAGAGATGACGGCCCCCAG 1141  
DB 1084 CGGAACATCTTCTTGACAGAAATGCCACTTTGTGGAGCTGACCGAAGATATAGGTCCCCAA 1143  
QY 1142 TTCCCTGGTCTGATCTCCATCCACACCAACCTTACACAGGCGCCCTGTGCAGGAGAG 1201  
DB 1144 TTCCCATGTGATCTCCATCCACAACTCTCAGCTCCCAACAGCCCTCTCTAGTGAACAG 1203  
QY 1202 GTACCATAAA 1211  
DB 1204 ATGTCAAGAA 1213  
RESULT 2  
US-10-225-567A-556  
; Sequence 556, Application US/10225567A  
; Publication No. US20030113798A1  
; GENERAL INFORMATION:  
; APPLICANT: LifeSpan Biosciences  
; APPLICANT: Brown, Joseph P.  
; APPLICANT: Burmer, Glenna C.  
; APPLICANT: Roush, Christine L.  
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPT  
; FILE REFERENCE: 1920-4-4  
; CURRENT APPLICATION NUMBER: US/10/225,567A  
; PRIOR FILING DATE: 2001-12-19  
; PRIOR APPLICATION NUMBER: 60/257,144  
; PRIOR FILING DATE: 2000-12-19  
; NUMBER OF SEQ ID NOS: 2292  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 556  
; LENGTH: 1239  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-225-567A-556  
Query Match 64.0%; Score 788; DB 14; Length 1239;  
Best Local Similarity 80.0%; Pred. No. 1.6e-246;  
Matches 926; Conservative 0; Mismatches 232; Indels 0; Gaps 0;  
QY 54 ACATCTCTCATGAAGTACTTGAACAGACAGAGAGTACTTGGCCACCTGTGGGAC 113  
DB 47 AAGATCCATTTCCAGAAACACCTTGAACAGACCGAGAGTATCTGGCTTCTCTGCGGAC 106  
QY 114 CCAAGCGCAGTACCTTCCCTCCGCTGTCTGCGCTATGCGCTGATCTTCTGTGGTG 173  
DB 107 CTCGGCGCAGCCTTCTTCTCTCCCGTGTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 166  
QY 174 GGTAATGGCAATCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 233  
DB 167 GGCTCATTTGCAATGCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 226  
QY 234 CCACCAACTACTATCTTCTTCAGCTTGGCAGTCTCAGATCTGCTGTGTGTGTGTGTGTGT 293  
DB 227 CCACCAACTACTATCTTCTTCAGCTTGGCGGTCTCTGACCTTCTGCTGTGTGTGTGTGT 286  
QY 294 TGCCTCTGGAATCTACGAGATGTGGCAAAATTTACCTTTTCTGTTTCTGGGCGCTGTGGAT 353  
DB 287 TGCCTCTGGAGGTCTATGAGATGTGGCAAACTACCTTTTCTTGTGTGTGTGTGTGTGTGT 346  
QY 354 GCTACTTCAAGACAGCCCTTCTTCGAGACTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 413  
DB 347 GCTACTTCAAGACAGCCCTTCTTGTGACACGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 406  
QY 414 CGGTTAGCTAGAGCGCTATGTGGCCATGTGTCCACCTTTCGAGCGCAAGCTGGAGAGCA 473  
DB 407 CGGTACGCGTGGAGCGCTACGTGGCCATCTTACACCCGTTTCCGCGCCAACTGCAGAGCA 466

```
Qy 474 CGCGGACGCGCCCTCAGGATCCTCAGCTAGCTAGCTGAGCTTCTCTGTGCTTTCTT 533
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 467 CCCGGCGCGGCCCTCAGGATCCTCGGCATCTCGTGGGCTTCTCGTCTCTCTCCC 526
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 534 TGCCCAATACAGCATCATGGCATCAAGTTCAGCACTTTCCCAACGGGTCTCCGTAC 593
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 527 TGCCCAACACAGCATCATGGCATCAAGTTCAGCACTTTCCCAACGGGTCTCCGTAC 586
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 594 CTGGCTCAGCCACTGACAGTACCAACCCATGCTGGTCTATAAATGATCATCAAG 653
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 587 CAGGTTCGGCCACCTGACGGTCAACAGCCCATGTGGATCTACAATTTTCATCCAGG 646
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 654 CTACGAGTCTCTTCTACATCTCCCAATGACCCCTCATCAGCGTCTCTACTACCTCA 713
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 647 TCACCTCTCTCTTCTACCTCTCCCAATGACCTCATCAGTCTCTACTACCTCA 706
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 714 TGGGGCTCAGCTGAAGAGATGAATCCCTTTAGGCGAACAAGTGGCTGTGAATATC 773
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 707 TGGCACTCAGACTAAGAAAGACAATCTCTTGAGGAGATGAAGGAATGCAATATTC 766
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 774 ACAGACCTCTAGAAAGTCACTACCAAGATGCTTTGCTTGGTCTCTGTGTTGCCA 833
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 767 AAAGACCTCTCAGAAATCAGTCAACAAGATGCTTTGCTTGGTCTTAGTGTGCTA 826
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 834 TCTGTGGACCCCTTCCATGTGACCGGCTCTTCTTTCAGCTTTTGTGAAGAGTGGAC 893
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 827 TCTGTGGCCCGCTTCCACATTCAGCACTCTTCTTTCAGCTTTTGTGAGAGTGGAGT 886
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 894 AGTCCCTGGCTGTGTCTCAACCTCATCCATGCTGATGATGCTCTCTTTTATCTGA 953
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 887 AATCCCTGGCTGTGTCTCAACCTCTCCATGCTGATGCTGCTCTCTTCTACCTGA 946
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 954 GCTCGGGGTCAACCCCATATCTATAACCTCTGCTCGGCGCTTCGGGCGCCCTTTC 1013
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 947 GCTCAGCTGTAACCCCATATCTATAACCTCTGCTCGGCGCTTCAGGACATCTCC 1006
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1014 GAAATGTTGCTCCCTTACCTTGCATAATGGTGCCATCCCGGCTGCGGACAGGACTC 1073
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1007 AGATGTGATCTCTTCTCCACAACAGTGGCATCCAGCATGACCCACAGTTGCCAC 1066
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1074 CAGCCCAAGAGATCATCTTTTGACAGAATGTACCTCGTGGAGCTGACAGAGATCAG 1133
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1067 CTGCCCCGCGGAACATCTCTGACAGAATGCCACTTTGTGGAGCTGACCGAAGATAG 1126
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1134 GCCCCAGTTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1193
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1127 GTCCCCAATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1186
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1194 CAGGAGAGTACCATAAA 1211
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1187 GTGAACAGATGTCAAGAA 1204
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
```

## RESULT 3

```
us-09-782-974C-17/c
; Sequence 17, Application US/09782974C
; Publication No. US20030082534A1
; GENERAL INFORMATION:
; APPLICANT: Vogel, Gabriel
; APPLICANT: Lind, Peter
; APPLICANT: Wood, Linda S.
; APPLICANT: Parodi, Luis A.
; TITLE OF INVENTION: No. US20030082534A1 G Protein Coupled Receptor
; FILE REFERENCE: 411USPHR311
; CURRENT APPLICATION NUMBER: US/09782, 974C
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: 60/165,838
; PRIOR FILING DATE: 1999-11-16
; PRIOR APPLICATION NUMBER: 09/714,449
; PRIOR FILING DATE: 2000-11-16
; PRIOR APPLICATION NUMBER: 60/198,568
; PRIOR FILING DATE: 2000-04-20
```

```
; PRIOR APPLICATION NUMBER: 60/166,071
; PRIOR FILING DATE: 1999-11-17
; PRIOR APPLICATION NUMBER: 60/166,678
; PRIOR FILING DATE: 1999-11-19
; PRIOR APPLICATION NUMBER: 60/173,396
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/184,129
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: 60/185,421
; PRIOR FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: 60/185,554
; PRIOR FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: 60/186,530
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 192
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17
; LENGTH: 801
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-782-974C-17
```

```
Query Match 38.4%; Score 472.6; DB 11; Length 801;
Best Local Similarity 79.5%; Pred. No. 1.4e-143;
Matches 578; Conservative 0; Mismatches 134; Indels 15; Gaps 1;

Qy 17 TCAGTAATGGAAACTTGAANAATGCTCTCTGGATCCAC-----GATCCT 61
Db 801 TCAGGATGGAAACTTCAAGATGCTCTCTGGATCTACCAAGAGAACTAGAAGATCCA 742
Qy 62 CTCATGAAGTACTTGAACACACAGAGAGAGTACTTGGCCACCTGTGGACCAAGGC 121
Db 741 TTCAGAAACACCTTGAACAGACAGGAGATCTGGCTTCTCTGGACCTTCGGCGC 682
Qy 122 AGTGACCTATCCCTTCGGGTGCTCTGTGGCTTATCGCTGATCTTCTCTGGTGGGTAAATG 181
Db 681 AGCCACCTTCTCTCCCGCTGCTGTGTGTATGTGCAATTTTGTGGTGGGTCAAT 622
Qy 182 GGCAATCTTCTGGTGCATGGTATGTGCGACATCAGACTTTGAAGACACCCACCAAC 241
Db 621 GGCAATCTCTGGTGTGCTGTGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 562
Qy 242 TACTATCTCTTACGCTTGGCAGTCTCAGATCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 301
Db 561 TACTATCTCTTACGCTTGGCAGTCTCAGATCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 502
Qy 302 GAAATCTACGAGATGTGGCACAATTAACCTTTCTGTGGGCGCTGTGGGATGCTACTTC 361
Db 501 GAGGTCTATGAGATGTGGCACAATTAACCTTTCTGTGGGCGCTGTGGGATGCTACTTC 442
Qy 362 AAGACAGCCCTCTTCGAGACTGTGCTTGGCTTCCATTTCTCAGTGTCCACACCGTTAGC 421
Db 441 AAGACAGCCCTCTTTCGAGACTGTGCTTGGCTTCCATTTCTCAGTGTCCACACCGTTAGC 382
Qy 422 GTAGAGCGCTATGTGGCAGTGTCCACCTTTCGAGCAGCAAGCTTGGAGACACCGCGCA 481
Db 381 GTGAGCGCTATGTGGCAGTGTCCACCTTTCGAGCAGCAAGCTTGGAGACACCGCGCGC 322
Qy 482 CGGGCCCTCAGGATCTCTCAGCTAGTCTGGAGCTTCTCTGTGGTCTTTTTCCTTCCCAAT 541
Db 321 CGGGCCCTCAGGATCTCTCAGCTAGTCTGGAGCTTCTCTGTGGTCTTTTTCCTTCCCAAT 262
Qy 542 ACCAGATCATGATCAAGTTCACAGCTTTTCCCAACGGGTCTCTCGTACCTGGGTCTCA 601
Db 261 ACCAGATCATGATCAAGTTCACAGCTTTTCCCAACGGGTCTCTCGTACCTGGGTCTCA 202
Qy 602 GCCACCTGCAGTCAACCAACCCATGTGGGTGTATAACTTGTATCATCAAGCTACACAGC 661
Db 201 GCCACCTGCAGTCAACCAACCCATGTGGGTGTATAACTTGTATCATCAAGCTACACAGC 142
Qy 662 TTCTCTTCTACATCTCTCCCAATGACCTCTATCAGCGTCTCTACTACTCATCTGGGTCT 721
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
```

Db 141 TTCTATTACCTCTCCCATGACTGTATCATCAGTGTCTCTACTACCTCATGGCACTC 82  
QY 722 AGGCTGA 728  
Db 81 AGAGTGA 75  
RESULT 4  
US-10-083-168-13  
; Sequence 13, Application US/10083168  
; Publication No. US20030023069A1  
; GENERAL INFORMATION:  
; APPLICANT: Liaw, Chen W.  
; APPLICANT: Chalmers, Derek T.  
; APPLICANT: Behan, Dominic P.  
; APPLICANT: Maciejewski-Lenior, Dominique  
; APPLICANT: Leonard, James N.  
; APPLICANT: Ortuno, Daniel  
; APPLICANT: Lin, I-Lin  
; TITLE OF INVENTION: Endogenous And No. US20030023069A1-Endogenous, Constitutively Act  
; FILE OF INVENTION: Receptors  
; FILE REFERENCE: AREN-0320  
; CURRENT APPLICATION NUMBER: US/10/083,168  
; CURRENT FILING DATE: 2002-02-26  
; NUMBER OF SEQ ID NOS: 102  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 13  
; LENGTH: 1212  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-083-168-13

Query Match 26.9%; Score 330.6; DB 14; Length 1212;  
Best Local Similarity 61.4%; Pred. No. 4.3e-97;  
Matches 590; Conservative 0; Mismatches 329; Indels 42; Gaps 2;  
QY 110 GGACCAAGCGCAGTACCTATCCCTTCGGGTGCTGTGGCCATACGCTGATCTTCCTG 169  
Db 88 GGGCGCGCTGGGCAATGGCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 147  
QY 170 GTGGGGTAAATGGCAATCTTCTGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 229  
Db 148 GTGGGGCTGTGGGCAATGGCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 207  
QY 230 ACACCCCAAGCGCAGTACCTATCCCTTCGGGTGCTGTGGCCATACGCTGATCTTCCTG 289  
Db 208 ACACCCCAAGCGCAGTACCTATCCCTTCGGGTGCTGTGGCCATACGCTGATCTTCCTG 267  
QY 290 GGGATGCTGGAATCTACGAGATGTGGCACAATACCTTTCCTGCTGCTGCTGCTGCTGCTG 349  
Db 268 GGGCTGCGCTGGAGCTATGAGATGTGGCACAATACCTTTCCTGCTGCTGCTGCTGCTGCTG 327  
QY 350 GGATGCTACTTCAAGACAGCCCTCTTCGAGACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 409  
Db 328 GGGCTGCTTTCGCGACGCTACTGTGAGATGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 387  
QY 410 ACCACGGTATGAGCGGCTATGTGGCAATGTCCAGCCTTTCGGGAGCCAGCTGGAG 469  
Db 388 ACTGCGCTGAGCGTGAACGCTATGTGGCGGTGCTGCGCCACTCCAGCGGAGGTCCATG 447  
QY 470 AGACCGGGGAGCGGCGCTCAGGATGCTCAGCCTAGTGTGGAGCTTCTGTGCTGCTGCTGCT 529  
Db 448 GTGACGCGGGCCCATGTGGCGCGAGTGTGGGGCTGCTGGGGTCTTGGCATGCTGCTGCTG 507  
QY 530 TCTTTGCCCAATACCAAGCTATCCATGCAATCAAGTTCAGACACTTTCGCAACGGTCTCTCC 589  
Db 508 TCCCTGCCCAATACCAAGCTATCCATGCAATCAAGTTCAGACACTTTCGCAACGGTCTCTCC 567  
QY 590 GTACCTGGGTACGCCACCTGCACAGTCAACAACCCCATGTGGGTGTATTAACCTTGATCATC 649  
Db 568 GTGCCAGACTACGCTGTTTGCATGCTGGTCCGCGCCAGCGGCCCTCTACAAATGCTGCTG 627  
QY 650 CAAGCTACCAAGCTTCTCTTACATCTCCCAATGACCCCTCATACAGCGTCTCTCTACTAC 709

Db 628 CAGACACCGCGCTGCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 687  
QY 710 CTCATGGGCTCAGGCTGAAGAGATGA- - - - -ATCCCTTGAGGCGAACAAGT 759  
Db 688 CTCATTGGGCTGCGACTGCGGGGAGAGGCTGCTGCTCATGTCAGAGGCGCAAGGCGAGG 747  
QY 760 GGCTGTGAATATTACAGACACCTCTAGAAAGTCACTC- - - - - 796  
Db 748 GGCTCTGAGCAGCGGCTCCAGATACACCTGCAGGCTCCAGCAGCAGATCGGGGCGCG 807  
QY 797 - - - - -ACCAAGATGCTGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 847  
Db 808 AGACAAGTGAACCAAGATGCTGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 867  
QY 848 TTCCATGTGGACCGGCTCTCTTCAGCTTGTGGAAGAGTGGACAGATCCCTGCGCTGCTGCT 907  
Db 868 TTCCACGCGGCGGCTCATGTGGAGCGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 927  
QY 908 GTGTTCAACCTCATCCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 967  
Db 928 GCCTTCAGCAGCGTGCACGCTCATCTCCGCGCATCTTCTTCTACCTGGGCTGCGGCGCAAC 987  
QY 968 CCATTTATCTATAACCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1027  
Db 988 CCGTGTCTATAGCCTCATGTCCAGCGCTTCCGAGAGACCTTCCAGGAGGCGCTGCTGCTG 1047  
QY 1028 C 1028  
Db 1048 C 1048

RESULT 5  
US-10-251-385-113  
; Sequence 113, Application US/10251385  
; Publication No. US20030105292A1  
; GENERAL INFORMATION:  
; APPLICANT: Behan, Dominic P.  
; APPLICANT: Chalmers, Derek T.  
; APPLICANT: Liaw, Chen W.  
; TITLE OF INVENTION: No. US20030105292A1-Endogenous, Constitutively Activated Human  
; TITLE OF INVENTION: Protein-Coupled  
; FILE REFERENCE: AREN-0040  
; CURRENT APPLICATION NUMBER: US/10/251,385  
; CURRENT FILING DATE: 2002-09-20  
; PRIOR APPLICATION NUMBER: US/09/170,496  
; PRIOR FILING DATE: 1998-10-13  
; NUMBER OF SEQ ID NOS: 294  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 113  
; LENGTH: 1212  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-251-385-113

Query Match 26.9%; Score 330.6; DB 14; Length 1212;  
Best Local Similarity 61.4%; Pred. No. 4.3e-97;  
Matches 590; Conservative 0; Mismatches 329; Indels 42; Gaps 2;  
QY 110 GGACCAAGCGCAGTACCTATCCCTTCGGGTGCTGTGGCCATACGCTGATCTTCCTG 169  
Db 88 GGGCGCGCTGGGCAATGGCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 147  
QY 170 GTGGGGTAAATGGCAATCTTCTGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 229  
Db 148 GTGGGGCTGTGGGCAATGGCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 207  
QY 230 ACACCCCAAGCGCAGTACCTATCCCTTCGGGTGCTGTGGCCATACGCTGATCTTCCTG 289  
Db 208 ACACCCCAAGCGCAGTACCTATCCCTTCGGGTGCTGTGGCCATACGCTGATCTTCCTG 267  
QY 290 GGGATGCTGGAATCTACGAGATGTGGCACAATACCTTTCCTGCTGCTGCTGCTGCTGCTG 349





QY 1028 C 1028  
Db 1048 C 1048

## RESULT 7

US-10-290-078-16  
; Sequence 16, Application US/10290078  
; Publication No. US20030124596A1  
; GENERAL INFORMATION:  
; APPLICANT: Carroll, Joseph A.  
; TITLE OF INVENTION: Methods and Compositions for Treating  
; TITLE OF INVENTION: Hematological Disorders Using 232, 2059, 10630, 12848, 13875,  
; TITLE OF INVENTION: 14395, 14618, 17692 or 58874  
; FILE REFERENCE: MPI2001-288P1(M)  
; CURRENT APPLICATION NUMBER: US/10/290, 078  
; CURRENT FILING DATE: 2002-11-07  
; NUMBER OF SEQ ID NOS: 27  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 16  
; LENGTH: 1212  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
US-10-290-078-16

Query Match 26.9%; Score 330.6; DB 14; Length 1212;  
Best Local Similarity 61.4%; Pred. No. 4.3e-97;  
Matches 590; Conservative 0; Mismatches 329; Indels 42; Gaps 2;  
QY 110 GGACCAAGCGCAGTACCTATCCCTTCGGGTCTGTGGCCCTATGCGCTGATCTTCCTG 169  
Db 88 GGGCCCCAGCAGACAGAGCTGTTCATGCCCATCTGTGCCACATACCTGCTGATCTTCGTG 147  
QY 170 GTGGGGTAATGGGCAATCTTCTGGTGTGATGTTGCGAGATGTTGCGAGATGTTGAAG 229  
Db 148 GTGGGGCTGTGGGCAATCTTCTGGTGTGATGTTGCGAGATGTTGCGAGATGTTGCGAG 207  
QY 230 ACACCCACCACTACTATCTTTCAGTCTGGCAGTCTCAGATCTGCTGGTCTGCTGCTGCTG 289  
Db 208 ACACCCACCACTACTATCTTTCAGTCTGGCAGTCTGCTGGTCTGCTGCTGCTGCTGCTG 267  
QY 290 GGGATGCCCTCTGGAATCTACGAGATGTTGCCACAAATACCTTTCCTGTTGGGCCCTGTC 349  
Db 268 GGGTGGCCCTGAGCTCTATGAGATGTTGCCAACTACCCCTTCTGCTGGGCGTGGT 327  
QY 350 GGATGCTACTTCAAGACAGCCCTCTTCGAGACTGTGTGCTGCTGCTGCTGCTGCTGCTGCT 409  
Db 328 GGCTGCTATTTCCGCACGCTACTGTTTGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 387  
QY 410 ACCACGGTTCAGCTAGAGGCTATGTGGCATTGTCCACCTTTCCGAGCCAGCTGGAG 469  
Db 388 ACTGCCCTGAGCTGTGAAGCTATGTGGCGGTGGTGGCGGTGGTGGCGGTGGTGGTGGTGGT 447  
QY 470 AGCAGCGGGGAGCGGCGCTCAGATCTCAGCCTAGTCTGGAGCTTCTCTGTGGCTTT 529  
Db 448 GTACGCGGGGCGCATGTGGCGCGAGTGTGGGGCGTCTGGGGTCTTGGCATGCTCTGTC 507  
QY 530 TCTTTTCCCAATACACAGATCCATGCGATCAAGTTCAGCAGCTTTCCCAAGCGTCTCC 589  
Db 508 TCCCTGCCCAACACCGAGTGTACGGCATCCGGCAGCTGCGGCGCTGCGGCGGCCCA 567  
QY 590 GTACCTGGCTCAGCCACCTGCACAGTCAACAAACCATGTGGGTGTATTAACCTTGATCATC 649  
Db 568 GTGCCAGACTCAGCTGTTTGCATGCTGGTCCGCGCCACAGCGGCTCTTACAACTGGTAGTG 627  
QY 650 CAAGCTACAGCTTCTCTTACATCTCCCAATGACCGCTCATAGCGCTCTCTACTAC 709  
Db 628 CAGACACCGCGGCTGCTCTTCTCTGCTGCCCATGGCCATCATGAGCGTGTCTACTCTG 687  
QY 710 CTCATGGGCTCAGGCTGAAGAGATGA-----ATCCCTTGAGCGCGAACAAGT 759  
Db 688 CTCATTTGGGCTGCGGAGTGGGGGAGAGGCTGCTGCTCATGAGGAGGCCAAGGCGAGG 747

QY 760 GGCTGTGAATATTACAGACCCCTCTAGAAAAGTCAGTC----- 796  
Db 748 GGCTGTGCGAGCAGCGAGGTCCAGATACACCTGCGAGGCTCCAGCAGCAGATCGGGGCGG 807  
QY 797 -----ACCAAGATGCTGTTTGTGCTTGGCTCCTCGTGTGGCTATCTGCTGAGACCCC 847  
Db 808 AGACAAGTGAACCAAGATGCTGTTTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 867  
QY 848 TTCCATGTGACCGGCTCTTCTTCAGCTTGTGGAAGCTGGACAGATCCCTGGCTGCT 907  
Db 868 TTCCACGCGGACCGGCTCATGTGGAGCGTGTGTACAGTGGACAGATGGCTGCGACCTG 927  
QY 908 GTCTTCAACCTCATCATGATGTTGATCAGGTGTCTTCTTTTATCTGAGCTCCGCGGCAAC 967  
Db 928 GCCTTCCAGCAGCTGACGCTCATCTCCGCACTCTTCTTACCTGGCTCGGCGGCAAC 987  
QY 968 CCATATTATATAACCTCCTGCTCGGCGCTTCGCGGCGGCTTCGAAATGTTGTCTCC 1027  
Db 988 CCGTGTCTATAGCCTCATGTCCAGCGCTTCGAGAGACCTTCCAGGAGGCGCTGTGC 1047  
QY 1028 C 1028  
Db 1048 C 1048

## RESULT 8

US-10-290-078-17  
; Sequence 17, Application US/10290078  
; Publication No. US20030124596A1  
; GENERAL INFORMATION:  
; APPLICANT: Carroll, Joseph A.  
; TITLE OF INVENTION: Methods and Compositions for Treating  
; TITLE OF INVENTION: Hematological Disorders Using 232, 2059, 10630, 12848, 13875,  
; TITLE OF INVENTION: 14395, 14618, 17692 or 58874  
; FILE REFERENCE: MPI2001-288P1(M)  
; CURRENT APPLICATION NUMBER: US/10/290, 078  
; CURRENT FILING DATE: 2002-11-07  
; NUMBER OF SEQ ID NOS: 27  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 17  
; LENGTH: 1212  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)...(1212)  
US-10-290-078-17

Query Match 26.9%; Score 330.6; DB 14; Length 1212;  
Best Local Similarity 61.4%; Pred. No. 4.3e-97;  
Matches 590; Conservative 0; Mismatches 329; Indels 42; Gaps 2;

QY 110 GGACCAAGCGCAGTACCTATCCCTTCGGGTCTGTGGCCCTATGCGCTGATCTTCCTG 169  
Db 88 GGGCCCCAGCAGACAGAGCTGTTCATGCCCATCTGTGCCACATACCTGCTGATCTTCGTG 147  
QY 170 GTGGGGTAATGGGCAATCTTCTGGTGTGATGTTGCGAGATGTTGCGAGATGTTGCGAG 229  
Db 148 GTGGGGCTGTGGGCAATCTTCTGGTGTGATGTTGCGAGATGTTGCGAGATGTTGCGAG 207  
QY 230 ACACCCACCACTACTATCTTTCAGTCTGGCAGTCTCAGATCTGCTGGTCTGCTGCTGCTG 289  
Db 208 ACACCCACCACTACTATCTTTCAGTCTGGCAGTCTGCTGGTCTGCTGCTGCTGCTGCTG 267  
QY 290 GGGATGCCCTCTGGAATCTACGAGATGTTGCCACAAATACCTTTCCTGTTGGGCCCTGTC 349  
Db 268 GGGTGGCCCTGAGCTCTATGAGATGTTGCCAACTACCCCTTCTGCTGGGCGTGGT 327  
QY 350 GGATGCTACTTCAAGACAGCCCTCTTCGAGACTGTGTGCTGCTGCTGCTGCTGCTGCTGCT 409  
Db 328 GGCTGCTATTTCCGCACGCTACTGTTTGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 387



Db 1114 CCGTGCTCTATAGCCTCATGTCCAGCGCTTCCGAGAGACCTTCCAGGAGGCCCTGTGC 1173  
QY 1028 C 1028  
Db 1174 C 1174  
RESULT 10  
US-10-146-123-12  
; Sequence 12, Application US/10146123  
; Publication No. US20030092112A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Liu, Chenghua  
; APPLICANT: Zhang, Jie  
; APPLICANT: Drmanac, Radoje T.  
; TITLE OF INVENTION: Polypeptides  
; FILE REFERENCE: 790CIP2ADIV2  
; CURRENT APPLICATION NUMBER: US/10/146,123  
; CURRENT FILING DATE: 2002-05-15  
; PRIOR FILING DATE: 2000-09-22  
; PRIOR APPLICATION NUMBER: 09/668,680  
; PRIOR FILING DATE: 2000-08-23  
; PRIOR APPLICATION NUMBER: 09/649,167  
; PRIOR FILING DATE: 2000-03-31  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: pt\_FL\_genes Version 2.0  
; SEQ ID NO 12  
; LENGTH: 1535  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(1338)  
US-10-146-123-12

Query Match 26.9%; Score 330.6; DB 14; Length 1535;  
Best Local Similarity 61.4%; Pred. No. 4.8e-97;  
Matches 590; Conservative 0; Mismatches 329; Indels 42; Gaps 2;  
QY 110 GGACCCAGCGAGTACCTATCCCTTCGGGTGCTGTGGCCCTATGCGTGTATCTTCCTG 169  
Db 214 GGCGCCAGCAGACAGAGTGTTCATGCGCCATCTGTGCCACATACCTGCTGATCTCGTG 273  
QY 170 GTGGGGTAATGGCAATCTCTGTGTGCATGGTGATTGTCGGACATCAGACTTTGAAG 229  
Db 274 GTGGCGCTGTGGGCAATGGGCTGACCTGTCTGGTTCATCTCGGCCAAGGCCATGCGC 333  
QY 230 ACACCCACCACTACTATCTCTTCAGCTTGGCAGTCTCAGATCTGCTGCTGCTCTTTG 289  
Db 334 ACGCTTACCACTACTACCTTTCAGCTGGCGGTGTCGACCTGCTGGTGTGCTGGTG 393  
QY 290 GGGATGCTCTGGAATATACGAGATGGGACAAATACCTTTCCTGCTGGGCGCTGTG 349  
Db 394 GCGCTGCCCTGGAGCTCTATGAGATGTGGCACAATACCCCTTCTGCTGGGCGTTGGT 453  
QY 350 GGATGCTACTTCAAGACACCCCTCTTCGAGACTGTGTGCTTGGCTTCCATTTCTCAGTGTC 409  
Db 454 GCGTGTATTTCCGACCGTACTGTTTGAGATGGTCTGCTGGCCTCAGTGTCTACACGTC 513  
QY 410 ACCAGGTTAGGTAGAGCGCTATGTGGCCATTTGCCACCTTTCCGAGCCAAAGTGGAG 469  
Db 514 ACTGCCCTCAGCTGGAACGCTATGTGGCGGTGTGACCCACTCCAGGCCAGGTCCATG 573  
QY 470 AGCAGCGCGGAGGGCCCTCAGGATCTCAGCCCTAGTCTGAGGCTTCTGTGCTTTT 529  
Db 574 GTGACGCGGGCCCATGTGCGCGGAGTGTGTGGGCGCTGTGGGCGCTTGGCCATGCTCTGC 633  
QY 530 TCTTTGCCCAATACAGGATCCATGCAATCAAGTTCACGACCTTTCCCAACGGTCCCTCC 589  
Db 634 TCCCTGCCCAACACCGCCTGCGGCATCCGGCAGCTGCACGTGCGCTTGGCGGGGCCCA 693

QY 590 GTACCTGGCTCAGCCACCTGCACAGTCACCAAAACCATGTGGGTGTATAACTTGTATCATC 649  
Db 694 GTGCCAGACTCAGCTGTTTGCATGTGTCGCCCGCAGCGGCCCTCTACAACATGGTAGTG 753  
QY 650 CAAGCTACCAAGCTTCCTTCTACATPCTCCAAATGACCCCTCATCAGCGTCTCTACTAC 709  
Db 754 CAGACCACCGCGCTGCTCTTCTTGCCTGCCATGGCCATCATGAGCGTCTCTACCTG 813  
QY 710 CTCATGGGCTCAGGCTGAAGAGATGA-----ATCCCTTGAGGCGGACAAAGT 759  
Db 814 CTCATGGGCTGCGACTGCGCGGAGAGGCTGCTGCTCATGAGGAGGCCAAGGCGAGG 873  
QY 760 GGCTGTGAATATTACAGACCCCTCTAGAAAGTCAGTC----- 796  
Db 874 GGCCTGCAGCAGCCAGGTCCAGATACACCTGCAGGCTCCAGCAGCACCATCGGGCGCG 933  
QY 797 -----ACCAAGATGCTGTTGCTGTCGTCGTTGTCCTTTTATCTGAGCTCCGCGGTCAAC 957  
Db 934 AGACAAGTGCACCAAGATGCTGTTGCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 993  
QY 848 TTCCATGTGACCGGCTCTCTTCAGCTTTGTGGAAGAGTGGACAGAGTCCCTGGCTGCT 907  
Db 994 TTCCACGCGCGCGCTCATGTGGCGTGTGTCAGTGGACAGATGGCCTGCACTG 1053  
QY 908 GTGTTCAACCTCATCCATGTGGTATCAGGTGTCTTCTTTTATCTGAGCTCCGCGGTCAAC 957  
Db 1054 GCGTTCCAGCAGCTGCACGCTCATCTCCGCGCTCTTCTTCTACCTGGCTCGGGCGCAAC 1113  
QY 968 CCCATTATCTAATACCTCTCTGCTGCTGCGGCTTCCGCGCGGCTTTCCGAAATGTTGCTCC 1027  
Db 1114 CCGGTGCTCTATAGCCTCATGTCCAGCGCTTCCGAGAGACCTTCCAGGAGGCCCTGTGC 1173  
QY 1028 C 1028  
Db 1174 C 1174

RESULT 11  
US-10-083-168-82  
; Sequence 82, Application US/10083168  
; Publication No. US20030023069A1  
; GENERAL INFORMATION:  
; APPLICANT: Liaw, Chen W.  
; APPLICANT: Chalmers, Derek T.  
; APPLICANT: Behan, Dominic P.  
; APPLICANT: Maciejewski-Lenior, Dominique  
; APPLICANT: Leonard, James N.  
; APPLICANT: Ortuno, Daniel  
; APPLICANT: Lin, I-Lin  
; TITLE OF INVENTION: Endogenous And No. US20030023069A1-Endogenous, Constitutively  
; FILE REFERENCE: AREN-0320  
; CURRENT APPLICATION NUMBER: US/10/083,168  
; CURRENT FILING DATE: 2002-02-26  
; NUMBER OF SEQ ID NOS: 102  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 82  
; LENGTH: 1212  
; TYPE: DNA  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: No. US20030023069A1e1 Sequence  
US-10-083-168-82

Query Match 26.7%; Score 329; DB 14; Length 1212;  
Best Local Similarity 61.3%; Pred. No. 1.4e-96;  
Matches 589; Conservative 0; Mismatches 330; Indels 42; Gaps 2;  
QY 110 GGACCCAGCGAGTACCTATCCCTTCGGGTGCTGTGGCCCTATGCGTGTATCTTCCTG 169  
Db 88 GGCGCCAGCAGACAGAGTGTTCATGCCCCATCTGTGCCACATACCTGCTGATCTTCGTG 147

```
Qy 170 GTGGGGTAATGGGCAATCTTCTGGTGTGCATGTGTGATGTGCCAGATCAGACATTTGAAG 229
Db 148 GTGGCGCTGTGGCAATGGCTGACCTGTGCTCATCTGCTGCCGCCAAGAGCCATCGC 207
Qy 230 ACACCCACCAACTACTATCTTCCAGCTTGGCAGCTCTCAGATCTGCTGGTCTCTCTTG 289
Db 208 ACAGCTACCAACTACTACTCTTCCAGCTGGCCGTGCGGACCTGTGGTCTCTCTGGTG 267
Qy 290 GGGATGCTCTGGAATCTACGAGATGTGGCACAATTTACCCCTTCTCTGTTGGGCCCTTG 349
Db 268 GGCCTGCCCCGAGCTATGAGATGTGGCACAATTTACCCCTTCTCTGTTGGGCCCTTG 327
Qy 350 GGATGCTACTTCAAGACAGCCCTCTTCAGACTGTGTGCTTGTGCTCTCAATTTCTCAGTGT 409
Db 328 GGCTGCTATTTCCCGACGCTACTGTTTTCAGATGCTTCCCTGGCTCAGTGTCTCAACGTC 387
Qy 410 ACCACGGTTAGCTAGAGCGCTATGTGCCAATTTGCCAGCCTTCCGAGCCAAAGCTGGAG 469
Db 388 ACTGCCCTGAGCTGGAAAGCTATGTGGCCGTGTGGCCACCTCCAGGCCAGGTCCATG 447
Qy 470 AGCAGCGGGCAGCGGCCCTCAGGATCCTCAGCCTAGTGTGAGCTTCTCTGTGTGCTTTT 529
Db 448 GTGACGGGGGCCCATGTGCGCCGAGTGTGGGGCCGTCTGGGGTCTTGCCTCTGCTG 507
Qy 530 TCTTTGGCCCAATACCAGATCCATGGCATCAAGTTCCAGACATTTTCCCAAGCGGTCTCC 589
Db 508 TCCCTGGCCCAACACGAGCTGACGGCTGCGGAGCTGCAAGTGTGCTGCGGCCGCGCA 567
Qy 590 GTACTGTGCTCAGCACCTGACAGTGCACCAAAACCCATGTGGGTGTATACTTGCATCATC 649
Db 568 GTGCCAGACTCAGCTGTTTGTGATGTGCTGCCGCCACGGGCCCTCTACAACATGGTAGT 627
Qy 650 CAAGCTACCAAGTCTTCTTACATCCTCCCAATGACCCCTCATCAGCGCTCTCTACTATC 709
Db 628 CAGACACCGCGCTGCTCTTCTTCTGCTGCCCATGGCCATCATGAGCGTCTCTACCTG 687
Qy 710 CTCATGGGGCTCAGGCTGAAGAGATGA-----ATCCCTTGAGGCGCAACAAGT 759
Db 688 CTCATTTGGCTGCGACTGCGGCGGAGAGGCTGCTGCTCATGACAGGAGGCCAAGGGCAGG 747
Qy 760 GGCTGTGAATATTACAGACCCCTCTAGAAAGTCAAGTCAAC----- 799
Db 748 GGCTCTGACGAGCCAGGTCAGATACACCTGCGAGGCTCCAGACAGCATCGGGGCGCG 807
Qy 800 -----AAGATGCTGTTTGTCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 847
Db 808 AGACAAGTGAAGAAGATGCTGTTTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 867
Qy 848 TTCCATGTGGACCGGCTCTTCTTCCAGAGATGTA-----ATCCCTTGAGGCGCAACAAGT 759
Db 808 AGACAAGTGAAGAAGATGCTGTTTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 867
Qy 848 TTCCATGTGGACCGGCTCTTCTTCCAGAGATGTA-----ATCCCTTGAGGCGCAACAAGT 759
Db 808 AGACAAGTGAAGAAGATGCTGTTTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 867
```

RESULT 12

```
US-10-251-385-223
; Sequence 223, Application US/10251385
; Publication No. US20030105292A1
; GENERAL INFORMATION:
; APPLICANT: Behan, Dominic P.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Liaw, Chen W.
```

```
; TITLE OF INVENTION: No. US20030105292A1-Endogenous, Constitutively Activated Human
; TITLE OF INVENTION: Protein-Coupled
; FILE REFERENCE: AREN-0040
; CURRENT APPLICATION NUMBER: US/10/251.385
; CURRENT FILING DATE: 2002-09-20
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 223
; LENGTH: 1212
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-251-385-223
```

```
Query Match 26.7%; Score 329; DB 14; Length 1212;
Best Local Similarity 61.3%; Pred. No. 1.4e-96;
Matches 589; Conservative 0; Mismatches 330; Indels 42; Gaps 2;

Qy 110 GGACCCAGCGCAGTACCTATCCCTTCCGGTGTCTGTGGCTATGGGCTGATCTCTCTG 169
Db 88 GGGCCCCAGCAGACAGAGCTGTTTCATGCCCATCTGTGCCACATACCTGCTCATCTCTG 147
Qy 170 GTGGGGTAATGGGCAATCTTCTGGTGTGCATGTGTGATGTGCCAGATCAGACATTTGAAG 229
Db 148 GTGGCGCTGTGGGCAATGGGCTGACCTGTGCTGTCATCTCTGCGCCACAAGAGCCATGCG 207
Qy 230 ACACCCACCAACTACTACTCTTCCAGCTTGGCAGCTCTCAGATCTGCTGCTCTCTCTG 289
Db 208 ACGCCCTACCAACTACTACTCTTCCAGCTTGGCCGTGCGGACCTGCTGCTGCTGCTG 267
Qy 290 GGGATGCTCTTGGAAATCTTACGAGATGTGGCACAATTTACCCCTTCTCTGTTCCGGCTGTG 349
Db 268 GGCCTGCCCCGAGCTTATGAGATGTGGCACAATTTACCCCTTCTCTGTTCCGGCTGTG 327
Qy 350 GGATGCTACTTCAAGACAGCCCTCTTCAGACTGTGTGCTTGTGCTCTCAATTTCTCAGTGT 409
Db 328 GGCTGCTATTTCCCGACGCTACTGTTTTCAGATGCTTCCCTGGCTCAGTGTCTCAACGTC 387
Qy 410 ACCACGGTTAGCTAGAGCGCTATGTGCCAATTTGCCACCCCTTTCAGGCGCAAGCTGGAG 469
Db 388 ACTGCCCTGAGCTGGAAAGCTATGTGGCCGTGTGCGCCACCTCCAGGCCAGGTCCATG 447
Qy 470 AGCAGCGGGCAGCGGCCCTCAGGATCCTCAGCCTAGTGTGAGCTTCTCTGTGTGCTTTT 529
Db 448 GTGACGGGGGCCCATGTGCGCCGAGTGTGGGGCCGTCTGGGGTCTTGCCTCTGCTG 507
Qy 530 TCTTTGGCCCAATACCAGATCCATGGCATCAAGTTCCAGACATTTTCCCAAGCGGTCTCC 589
Db 508 TCCCTGGCCCAACACGAGCTGACGGCTGCGGAGCTGCAAGTGTGCTGCGGCCGCGCA 567
Qy 590 GTACTGTGCTCAGCACCTGACAGTGCACCAAAACCCATGTGGGTGTATACTTGCATCATC 649
Db 568 GTGCCAGACTCAGCTGTTTGTGATGTGCTGCCGCCACGGGCCCTCTACAACATGGTAGT 627
Qy 650 CAAGCTACCAAGTCTTCTTACATCCTCCCAATGACCCCTCATCAGCGCTCTCTACTATC 709
Db 628 CAGACACCGCGCTGCTCTTCTTCTGCTGCCCATGGCCATCATGAGCGTCTCTACCTG 687
Qy 710 CTCATGGGGCTCAGGCTGAAGAGATGA-----ATCCCTTGAGGCGCAACAAGT 759
Db 688 CTCATTTGGCTGCGACTGCGGCGGAGAGGCTGCTGCTCATGACAGGAGGCCAAGGGCAGG 747
Qy 760 GGCTGTGAATATTACAGACCCCTCTAGAAAGTCAAGTCAAC----- 799
Db 748 GGCTCTGACGAGCCAGGTCAGATACACCTGCGAGGCTCCAGACAGCATCGGGGCGCG 807
Qy 800 -----AAGATGCTGTTTGTCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 847
Db 808 AGACAAGTGAAGAAGATGCTGTTTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 867
Qy 848 TTCCATGTGGACCGGCTCTTCTTCCAGAGATGTA-----ATCCCTTGAGGCGCAACAAGT 759
Db 808 AGACAAGTGAAGAAGATGCTGTTTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 867
Qy 848 TTCCATGTGGACCGGCTCTTCTTCCAGAGATGTA-----ATCCCTTGAGGCGCAACAAGT 759
Db 808 AGACAAGTGAAGAAGATGCTGTTTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 867
```

Db 868 TTCCACGCCGACCGCGTGTGTGGAGCGTGTGTACAGTGGACAGATGGCCTGCACCTG 927  
QY 908 GTGTTCAACCTCATCCATGTGGTATCAGTGTCTCTTTTATCTAGCTCCGGGTCAC 967  
Db 928 GCCTCCAGCAGGTGACGTCATCTCCGGCATCTTCTTACCTGGGCTCGGGGCCAAC 987  
QY 968 CCATTATTATAACTCTGTCTGGCGCTTCCGGGCGGCTTTTCGAAATGTTGTCTCC 1027  
Db 988 CCGTGCTCTATAGCCTCATGTCCAGCGCTTCCGAGACACCTTCCAGGAGCCCTGTGC 1047  
QY 1028 C 1028  
Db 1048 C 1048

## RESULT 13

US-10-251-385-209  
; Sequence 209, Application US/10251385  
; Publication No. US20030105292A1  
; GENERAL INFORMATION:  
; APPLICANT: Behan, Dominic P.  
; APPLICANT: Chalmers, Derek T.  
; APPLICANT: Liaw, Chen W.  
; TITLE OF INVENTION: No. US20030105292A1-Endogenous, Constitutively Activated Human G  
; TITLE OF INVENTION: Protein-Coupled  
; TITLE OF INVENTION: Receptors  
; FILE REFERENCE: AREN-0040  
; CURRENT APPLICATION NUMBER: US/10/251,385  
; CURRENT FILING DATE: 2002-09-20  
; PRIOR APPLICATION NUMBER: US/09/170,496  
; PRIOR FILING DATE: 1998-10-13  
; NUMBER OF SEQ ID NOS: 294  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 209  
; LENGTH: 1101  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-251-385-209

Query Match 10.9%; Score 134.4; DB 14; Length 1101;  
Best Local Similarity 50.3%; Pred. No. 5.1e-33;  
Matches 439; Conservative 0; Mismatches 421; Indels 12; Gaps 4;  
QY 140 GTCTGTGTGCGCTATCGCTGTATCTTCTCGTGGGGTAAATGGCAATCTCTGTGGTGC 199  
Db 136 GTACAGCCACCTCGCTGGCACTCTCTGTGGGTATCGCTGGCAACCTGCTCACCATG 195  
QY 200 ATGGTGATGTCCGACATCAGACTTTGAAGACACCACCACTACTATCTCTTACGCTTG 259  
Db 196 CTGGTGTGTGGCGCTTCCGGAGCTGCGCACACCACCAACCTCTACCTGTCCAGCATG 255  
QY 260 GCAGTCTCAGATCTGTCTGTCTGTGGGATGCTTGAAGACACCACCACTACTATCTTACGCTTG 319  
Db 256 GCCTTCTCGATCTGTCTATCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 312  
QY 320 CACAATTACCTTCTCTGTGGCGCTGTGGGATGCTTCTTGAAGACAGCCCTCTTTCGAG 379  
Db 313 CAGTACCGGCGCTGGAATCTCGGACCTCTCTCTGCAAACTCTTCAAACTCTGCTAGTGA 372  
QY 380 ACTGTGTGTCTTCCCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 439  
Db 373 AGCTGCACCTACGCCACCGTGTCTACCATCAGAGCGCTGAGCGTGCAGCGCTACTTTCGCC 432  
QY 440 ATTGTCCACCTTTCGAGCAAGCTGGAGAGCAGCGGGGAGCGGCGCTCAGGATCCTC 499  
Db 433 ATCTGTCTTCCACTTCCGGGCGCAAGTGTGGTCCACCAAGGGGGGTGAAGCTGTGTCATC 492  
QY 500 AGCTAGTCTGGAGCTTCTGTGTGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 559  
Db 493 TTGCTCATCTGGGCGCTGTCTGTGAGCGCGGCGGCGGCTTCTTCTTCTTCTTCTTCTTCT 552  
QY 560 AAGTTCAGCACTTTTCCCAACGGGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 619

Db 553 GAGCAGGACGACCGGACCGCAGCTTGGGACACCAACAGTGTGGCGCCCGCCAGGTTTGGC 612  
QY 620 AAACCCATGTGGGTGTATTAACCTTGTATCATCTCCAAAGCTACCAGCTTCTCTTACATCCCTC 679  
Db 613 GTGGCGTCTGGGACTGCTACGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGG 669  
QY 680 CCAATGACCTCATCAGCTCTCTACTACCTCATGGGCTCAGGCTGAAGAGAGATGAA 739  
Db 670 CTGTCTTCTGTCTCAGGTCTCTACAGTCTCATCTCGGAGGAGTGTGGGAGGAGG 729  
QY 740 TCCCTTGGAGGAAACAAAGTGGCTGTGAATATTCACAGACCTCTTGAAGAGTCAAGTCAAC 799  
Db 730 CGCGGAGTGTCTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGG 786  
QY 800 AAGATGCTGTGTGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGG 859  
Db 787 AAAATGCTGGCTGTAGTGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGG 846  
QY 860 CG---GCTCTTCTTACAGCTTTTGTGGAAGAGTGGACAGAGTCCCTGCTGTGTGTCAAC 916  
Db 847 CGATATTTATTTTCCAAATCCTTTGAGCCTGGCTCTTGGAGATTGCTCAGATCAGCCAG 906  
QY 917 CTCATCCATGTGTATCAGGTGTCTTCTTTTATCTGAGTCCGCGGTCAACCCCATTTATC 976  
Db 907 TACTGCAACCTCGTGTCTTGTCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTG 966  
QY 977 TATACTCTCTCTCTCGGCGCTTCCGGGCGC 1008  
Db 967 TACAACATCATGTCCAAGAGTACCGGGTGGC 998

## RESULT 14

US-10-251-385-87  
; Sequence 87, Application US/10251385  
; Publication No. US20030105292A1  
; GENERAL INFORMATION:  
; APPLICANT: Behan, Dominic P.  
; APPLICANT: Chalmers, Derek T.  
; APPLICANT: Liaw, Chen W.  
; TITLE OF INVENTION: No. US20030105292A1-Endogenous, Constitutively Activated Human  
; TITLE OF INVENTION: Protein-Coupled  
; TITLE OF INVENTION: Receptors  
; FILE REFERENCE: AREN-0040  
; CURRENT APPLICATION NUMBER: US/10/251,385  
; CURRENT FILING DATE: 2002-09-20  
; PRIOR APPLICATION NUMBER: US/09/170,496  
; PRIOR FILING DATE: 1998-10-13  
; NUMBER OF SEQ ID NOS: 294  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 87  
; LENGTH: 1101  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-251-385-87

Query Match 10.8%; Score 132.8; DB 14; Length 1101;  
Best Local Similarity 50.2%; Pred. No. 1.7e-32;  
Matches 438; Conservative 0; Mismatches 422; Indels 12; Gaps 4;  
QY 140 GTCTGTGTGCGCTATCGCTGTATCTTCTCTGTGGGGTAAATGGCAATCTTCTGTGTGC 199  
Db 136 GTACAGCCACCTCGCTGGCACTCTTCTGTGGTGGTATCGCTGGCAACCTGCTCACCATG 195  
QY 200 ATGGTGATGTTCGACATCAGACTTTGAAGACACCACCACTACTATCTTCTTACGCTTG 259  
Db 196 CTGGTGTGTGGCGCTTCCGGAGCTGCGCACACCACCAACCTCTACCTGTCCAGCATG 255  
QY 260 GCAGTCTCAGATCTGTCTGTCTGTGGGATGCTTGAAGAGTCCCTCTTGAAGATGTGG 319  
Db 256 GCCTTCTCGATCTGTCTATCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 312  
QY 320 CACAATTACCTTCTCTGTTCGGGCGCTGTGGAGTGTACTTCAAGACAGCCCTCTTTCGAG 379

Db 313 CAGTACCGGCTCGAATTCGGGACCTCTCTGCAAACTCTTCCAACTTCTCAGTGAG 372  
Qy 380 ACTGTGTCTTGTCTCCATCTCAGTGTCAACGAGTTCAGGCTAGAGCGCTGTGTGCGC 439  
Db 373 AGCTGCACCTACGCGACGGTCTCACCATACAGGGTGTGAGCGGTACTTTCGCC 432  
Qy 440 ATTGTCCACCTTTCCGAGCAAGCTGGAGAGCAGCGGCGACGGGCCCTCAGGATCCTC 499  
Db 433 ATCTGCTTCCCACTCCGGGCGCAAGTGTGTGTACCAAGGGGCGGTGAAGCTGGTCATC 492  
Qy 500 AGCCTAGTCTGGAGTCTCTGTGTCTTTTGTTCCTTGGCCCAATACAGCATCCATGGCATC 559  
Db 493 TTCTGTCTTCTGCGGCTTCTGTGAGCGCGCGGCCCATCTTCTGTCTAGTGGGGTG 552  
Qy 560 AAGTTCAGCACTTTCCCAAGGGTCTCTCCCTACCTGGCTCAGCCACCTGCAGCATCAC 619  
Db 553 GAGCAGGAGACGGACCGACCTTGGGACACCAAGAGTCCCGCCGCCAGTGTGCG 612  
Qy 620 AAACCCATGTGGGTGTATAAATTGATCATCAAGCTACAGCTTCTCTTCTACATCCTC 679  
Db 613 GTGGCTCTGGACTGCTCACGGTCACTGTGTGGGTGTCCACCATCTTCTTCTCT 669  
Qy 680 CCAATGACCTTCATCAGGCTCTCTACTACCTCATGGGCTCAGGCTGAAGAGAGATGAA 739  
Db 670 CTTGTCTTCTCTCAGGCTCTCTACAGTCTCATCGGACAGAAAGCTGTGGCGGAGG 729  
Qy 740 TCCTTGAAGCGCAAAAGTGGCTGTGAATATTACAGACCTCTAGAAAGTCACTCAC 799  
Db 730 CGCGGAGTGTGTGGGTGCTCTGCTAGGACACCAAGCAACCAAGTCTTCCATG 786  
Qy 800 AAGATGCTGTGTGTGGTCTCTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 859  
Db 787 AAATGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 846  
Qy 860 CG---GCTCTCTTCAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 916  
Db 847 CGATATTATTTCCTCAATCTCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 906  
Qy 917 CTCATCATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 976  
Db 907 TACTGCAACCTCGTGTCTTGTCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 966  
Qy 977 TATAACCTCTGTCTCGGCGCTTCCGGGCGC 1008  
Db 967 TACAACATCATGTCCAAGAACTACGGGTGC 998

RESULT 15

US-10-270-333-194  
; Sequence 194, Application US/10270333  
; Publication No. US20030092124A1  
; GENERAL INFORMATION:  
; APPLICANT: Craychik, Anibal  
; TITLE OF INVENTION: ISOLATED G-PROTEIN COUPLED RECEPTORS,  
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING GPCR PROTEINS, AND USES  
; FILE OF INVENTION: THEREOF AS INSECTICIDAL TARGETS  
; FILE REFERENCE: CL000733CON  
; CURRENT APPLICATION NUMBER: US/10/270,333  
; CURRENT FILING DATE: 2002-10-15  
; PRIOR APPLICATION NUMBER: 60/168,677  
; PRIOR FILING DATE: 1999-12-03  
; PRIOR APPLICATION NUMBER: 60/175,691  
; PRIOR FILING DATE: 2000-01-12  
; PRIOR APPLICATION NUMBER: 60/191,638  
; PRIOR FILING DATE: 2000-03-23  
; NUMBER OF SEQ ID NOS: 198  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 194  
; LENGTH: 1788  
; TYPE: DNA  
; ORGANISM: Drosophila  
US-10-270-333-194

Query Match 9.3%; Score 114.2; DB 14; Length 1788;  
Best Local Similarity 49.0%; Pred. No. 2.6e-26;  
Matches 434; Conservative 0; Mismatches 403; Indels 48; Gaps 3;  
Qy 146 GTGGCTATGCGCTGATCTTCTGTTGGGGTAATGGCAATCTTCTGGTGTGATGTTGTG 205  
Db 199 GTGGCTACGCGCTCATATTTATGCGCGCTTTTGGCAACCTCATCACATGATGTTGT 258  
Qy 206 ATTCTCCGACATCAGACTTTCAAGACACCCACCACTACTATCTCTTCTGAGTGTGCACTC 265  
Db 259 ATTTCCGGGAACAATTTATGCACAGCGCCACCACTTTATCTGTGTTAACTCTGCTATA 318  
Qy 266 TCAGATCTGCTGGTCTCTTGGGATGCTCTGGAATCTACGAGATGTGGCACAAT 325  
Db 319 TCCGACATGATTTGTATGCTCAGGAATGCGCAGGACCTCTATACCTCTGGCACCG 378  
Qy 326 TACCTTTCTGTTTGGGCTGTGGATGCTTCAAGACAGCGCTCTTCGAGACTGTG 385  
Db 379 GATAATTATCTTCTCAGTGACAGCATCTGCATATTTGGAGAGCGTCTCTCGGAACGCG 438  
Qy 386 TGCTTTGCTCTCATCTCAGTGTCAACAGCTTACCGCGTTCACAGTCAAGCATATTTGCCATTTGT 445  
Db 439 GCAATGCGAGCTTCTAAACATTTACCGCGTTCACAGTCAAGCATATTTGCCATTTGT 498  
Qy 446 CACCTTTTCCGAGCAAGCTGGAGACGCGGCGGACCGGCTCAGGATCTCTCAGCCTA 505  
Db 499 CATCGTTTCAGGACGACACCATGTTCCAAAGTGTTCAGCGCGGTAAGTTTATATTTGCC 558  
Qy 506 GTCTGGAGCTTCTCTGTGGTCTTTTCTTTGGCCCAATACAGCATCCATGGGATCAAGTTC 565  
Db 559 ATCTGGATAGTGGCTTTTGTCTGCGCTGCGCCCAAGCATTTCAAGTTCTCGGTGTGATG 618  
Qy 566 CAGCAGCTTTCACAGCGGTCTCTGCTACCTGCTCAGCCACCTGCACAGTCAACAAACCC 625  
Db 619 CAGGCAATGGGAACATCGT-----GCACGATGAAA 648  
Qy 626 ATGTGGGTGTATAACTTGTATCATCAAGCTACCAGCTTCTCTTCTTACATCTCTCCAAATG 685  
Db 649 AACGACTTTTGTGCGCATGTCTTGTCTGCGGCTTCTCTTCTTGTGGCGGACCCATG 708  
Qy 686 ACCCTCATCAGCGCTCTCTACTACTCATGTTGGGCTCAGGCTGAAGAGAGATGAATCCCTT 745  
Db 709 ACGGCAATCTGCTGCTCTATGCTCATCTGCGGTGAAGTTGAAACGAGGCGGACTCCTG 768  
Qy 746 GAGCGAACAAGTG-----GCTGTGAATATTACAGACCTCTTAGAAGTCACTC 796  
Db 769 CAGGCGCTTCCGAGGAGATGTACGATGTAAACGCGGGGATGAAGCCCAACGCGAGTC 828  
Qy 797 ACCAAGATGCTGTTTGTCTTGGTCTCTGTTGGCATCTCTGTCGACCCCTTCCATGTG 856  
Db 829 ATCCGATGCTGTTGGGCTGCGCTGCTTCTTCTATCTGCTGCGCCCTTTCACGCC 888  
Qy 857 GACCGCTCTTCTCAGCTTTGT-----GGAAGAGTGGACAGATCTCTGCTGCT 907  
Db 889 CAGGCGCTGATGGCGGTCTATGATCCACCTCGGCGATTTAGTCCAGCTGTTTCAACGAC 948  
Qy 908 GTGTTTCAACCTCATCCATGTGTATCAGTGTCTTCTTTTATCTCAGCTCCGCGGTCAAC 967  
Db 949 GTGTTTCAACCTCATCCATGTGTATCAGTGTCTTCTTCTTCTTCTTCTTCTTCTTCTT 1008  
Qy 968 CCCATTATATAACCTCTCTCTCGGCGCTTCCGCGCGGCTTT 1012  
Db 1009 CCGCTGCTCTACAACATCATGAGCCACAAGTTTCTGTGAGGCTTT 1053

Search completed: August 24, 2003, 16:26:05  
Job time : 380.314 secs

**THIS PAGE BLANK (USPTO)**



GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 22, 2003, 19:07:13 ; Search time 22.4321 Seconds  
(without alignments)  
2323.674 Million cell updates/sec

Title: US-09-609-146-25  
Perfect score: 2076  
Sequence: 1 MGLKLNASWHDPLMKYLNS.....GQSIHNTNLTAPCAGEVP 395

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 497079 seqs, 131961718 residues

Total number of hits satisfying chosen parameters: 497079

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published\_Applications\_AA:\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
- 17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score  | Query Match | Length | ID | Description        |
|------------|--------|-------------|--------|----|--------------------|
| 1          | 1650.5 | 79.5        | 412    | 15 | US-10-225-567A-557 |
| 2          | 1650.5 | 79.5        | 412    | 15 | US-10-225-567A-557 |
| 3          | 1022.5 | 49.3        | 249    | 11 | US-09-782-974C-18  |
| 4          | 952.5  | 45.9        | 403    | 15 | US-10-251-385-114  |
| 5          | 952.5  | 45.9        | 403    | 15 | US-10-225-567A-540 |
| 6          | 952.5  | 45.9        | 403    | 15 | US-10-230-078-18   |
| 7          | 946.5  | 45.6        | 403    | 15 | US-10-231-385-224  |
| 8          | 564.5  | 27.2        | 419    | 9  | US-09-804-551B-26  |
| 9          | 564.5  | 27.2        | 428    | 15 | US-10-270-333-114  |
| 10         | 546.5  | 26.3        | 595    | 12 | US-10-314-076-17   |
| 11         | 546.5  | 26.3        | 595    | 15 | US-10-270-333-195  |
| 12         | 525.5  | 25.3        | 660    | 15 | US-10-270-333-192  |
| 13         | 499    | 24.0        | 418    | 15 | US-10-225-567A-207 |
| 14         | 477.5  | 23.0        | 412    | 15 | US-10-225-567A-473 |
| 15         | 477.5  | 23.0        | 412    | 15 | US-10-290-078-15   |

|    |       |      |     |    |                    |                    |
|----|-------|------|-----|----|--------------------|--------------------|
| 16 | 463.5 | 22.3 | 366 | 15 | US-10-251-385-88   | Sequence 88, Appl  |
| 17 | 462.5 | 22.3 | 366 | 15 | US-10-251-385-210  | Sequence 210, App  |
| 18 | 437   | 21.1 | 410 | 15 | US-10-225-567A-432 | Sequence 432, App  |
| 19 | 430.5 | 20.7 | 416 | 12 | US-10-205-219-21   | Sequence 21, Appl  |
| 20 | 416   | 20.0 | 398 | 15 | US-10-225-567A-326 | Sequence 326, App  |
| 21 | 404   | 19.5 | 399 | 12 | US-09-935-061-16   | Sequence 16, Appl  |
| 22 | 403.5 | 19.4 | 411 | 15 | US-10-253-983-2    | Sequence 2, Appl1  |
| 23 | 402.5 | 19.4 | 392 | 12 | US-09-935-061-12   | Sequence 12, Appl1 |
| 24 | 401.5 | 19.3 | 392 | 12 | US-09-935-061-14   | Sequence 14, Appl  |
| 25 | 400.5 | 19.3 | 400 | 10 | US-09-966-871-85   | Sequence 85, Appl  |
| 26 | 400.5 | 19.3 | 400 | 14 | US-10-039-645-85   | Sequence 85, Appl  |
| 27 | 400.5 | 19.3 | 412 | 15 | US-10-080-917-11   | Sequence 11, Appl  |
| 28 | 400.5 | 19.3 | 414 | 15 | US-10-080-917-9    | Sequence 9, Appl1  |
| 29 | 400.5 | 19.3 | 418 | 15 | US-10-185-083-40   | Sequence 40, Appl  |
| 30 | 400.5 | 19.3 | 418 | 15 | US-10-194-595-40   | Sequence 40, Appl  |
| 31 | 400.5 | 19.3 | 446 | 15 | US-10-185-083-39   | Sequence 39, Appl  |
| 32 | 400.5 | 19.3 | 446 | 15 | US-10-194-595-39   | Sequence 39, Appl  |
| 33 | 400.5 | 19.3 | 476 | 15 | US-10-080-917-7    | Sequence 7, Appl1  |
| 34 | 396.5 | 19.1 | 400 | 15 | US-10-225-567A-186 | Sequence 186, App  |
| 35 | 396.5 | 19.1 | 415 | 9  | US-09-823-114-20   | Sequence 20, Appl  |
| 36 | 396.5 | 19.1 | 415 | 15 | US-10-290-748-20   | Sequence 78, Appl  |
| 37 | 393.5 | 19.0 | 400 | 10 | US-09-966-871-78   | Sequence 78, Appl  |
| 38 | 393.5 | 19.0 | 400 | 14 | US-10-039-645-78   | Sequence 78, Appl  |
| 39 | 393   | 18.9 | 398 | 15 | US-10-225-567A-456 | Sequence 456, App  |
| 40 | 391.5 | 18.9 | 405 | 10 | US-09-966-871-84   | Sequence 84, Appl  |
| 41 | 391.5 | 18.9 | 405 | 14 | US-10-039-645-84   | Sequence 84, Appl  |
| 42 | 390   | 18.8 | 398 | 9  | US-09-214-904-2    | Sequence 2, Appl1  |
| 43 | 387   | 18.6 | 388 | 15 | US-10-185-083-35   | Sequence 35, Appl  |
| 44 | 387   | 18.6 | 388 | 15 | US-10-194-595-35   | Sequence 35, Appl  |
| 45 | 387   | 18.6 | 390 | 9  | US-09-761-962-25   | Sequence 25, Appl  |

ALIGNMENTS

RESULT 1  
US-10-225-567A-557  
; Sequence 557, Application US/10225567A  
; Publication No. US20030113798A1  
; GENERAL INFORMATION:  
; APPLICANT: Lifespan Biosciences  
; APPLICANT: Brown, Joseph P.  
; APPLICANT: Burner, Glenn C.  
; APPLICANT: Roush, Christine L.  
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPT  
; FILE REFERENCE: 1920-4-4  
; CURRENT APPLICATION NUMBER: US/10/225,567A  
; CURRENT FILING DATE: 2001-12-19  
; PRIOR APPLICATION NUMBER: 60/257,144  
; PRIOR FILING DATE: 2000-12-19  
; NUMBER OF SEQ ID NOS: 2292  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 557  
; LENGTH: 412  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-225-567A-557

|                       |       |                             |                                                 |            |    |        |     |
|-----------------------|-------|-----------------------------|-------------------------------------------------|------------|----|--------|-----|
| Query Match           | 79.5% | Score                       | 1650.5                                          | DB         | 15 | Length | 412 |
| Best Local Similarity | 79.4% | Pred. No.                   | 4.5e+139                                        |            |    |        |     |
| Matches               | 312   | Conservative                | 36                                              | Mismatches | 40 | Indels | 5   |
| Gaps                  | 1     |                             |                                                 |            |    |        |     |
| QY                    | 1     | MGLKLNASWHDPLMKYLNS         | -----DPLMKYLNSTEEYLAHLCCPKRSDLSLPVSVAVALFLVGVGN | 55         |    |        |     |
| Db                    | 1     | MEKLNASWHDPLMKYLNS          | -----DPLMKYLNSTEEYLAHLCCPKRSDLSLPVSVAVALFLVGVGN | 60         |    |        |     |
| QY                    | 56    | LIVLCVMIVRHOTLKTPTNYFLSLAVS | LDLLVLLGMPLEIYEMWHNYPLFLGPGVCYFKT               | 115        |    |        |     |
| Db                    | 61    | VLVCLVILHQHAKMTPTNYFLSLAVS  | LDLLVLLGMPLEIYEMWHNYPLFLGPGVCYFKT               | 120        |    |        |     |
| QY                    | 116   | ALFETVCFASLIVTTSVVERVYAI    | VHPRAKLESTRRLRILSLWSFSVFLSPLNTS                 | 175        |    |        |     |
| Db                    | 121   | ALFETVCFASLIVTTSVVERVYAI    | LHPRAKLESTRRLRILSLWSFSVFLSPLNTS                 | 180        |    |        |     |

|     |    |                                                                                                                                                           |     |
|-----|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 176 | Qy | IHGIKFQHPNGSSVPGSATCTVTKPMWVNLIIQATSFYFLPMTVLSVLYLNGRL                                                                                                    | 235 |
| 181 | Db | IHGIKFHYFNGSLVPGSATCTVIKPMWVNFIIQVTSFLYLLPMTVISVLYLMA <sup>1</sup> RL                                                                                     | 240 |
| 236 | Qy | KDESLEANKYAVNTHRSRKS <sup>2</sup> VTKMLFVLVLVLPFAICWTPFHVDRLFFSFVEW <sup>2</sup> TS <sup>2</sup> LAA                                                      | 295 |
| 241 | Db | KDKKSLEADEGNANTQRCRKS <sup>2</sup> VNKMFLFVLVLVLPFAICWAPFHDRLFFSFVEE <sup>2</sup> SS <sup>2</sup> LAA                                                     | 300 |
| 296 | Qy | VENLTHVYSGVFYFLSSAVNP <sup>2</sup> IIYNLLSRFPRAAFRNWVSP <sup>2</sup> CKWC <sup>2</sup> KPHRPG <sup>2</sup> PPAQ <sup>2</sup> KI                           | 355 |
| 301 | Db | VENLTHVYSGVFYFLSSAVNP <sup>2</sup> IIYNLLSRFPRAAFQNV <sup>2</sup> ISFHK <sup>2</sup> WHQS <sup>2</sup> HD <sup>2</sup> PP <sup>2</sup> QA <sup>2</sup> RN | 360 |
| 356 | Qy | IFLTECHLV <sup>2</sup> ELTEDAGP <sup>2</sup> QFPGQSSIHNTL <sup>2</sup> TTA                                                                                | 388 |
| 361 | Db | IFLTECHFV <sup>2</sup> ELTEDIGP <sup>2</sup> QFPGQSSWHN <sup>2</sup> SHL <sup>2</sup> PTA                                                                 | 393 |

## RESULT 2

```

US-10-272-983-12
: Sequence 12, Application US/10272983
: Publication NO. US20030148450A1
: GENERAL INFORMATION:
: APPLICANT: Chen, Ruoping
: APPLICANT: Dang, Huong T.
: APPLICANT: Liaw, Chen W.
: APPLICANT: Lin, I-Lin
: TITLE OF INVENTION: Human Orphan G Protein Coupled Receptors
: FILE REFERENCE: AREN0050
: CURRENT APPLICATION NUMBER: US/10/272,983
: CURRENT FILING DATE: 2002-10-17
: PRIOR APPLICATION NUMBER: US/09/417,044
: PRIOR FILING DATE: 1999-10-12
: PRIOR APPLICATION NUMBER: 60/109,213
: PRIOR FILING DATE: 1998-11-20
: PRIOR APPLICATION NUMBER: 60/120,416
: PRIOR FILING DATE: 1999-02-16
: PRIOR APPLICATION NUMBER: 60/121,851
: PRIOR FILING DATE: 1999-02-26
: PRIOR APPLICATION NUMBER: 60/123,946
: PRIOR FILING DATE: 1999-03-12
: PRIOR APPLICATION NUMBER: 60/123,949
: PRIOR FILING DATE: 1999-03-12
: PRIOR APPLICATION NUMBER: 60/136,436
: PRIOR FILING DATE: 1999-05-28
: PRIOR APPLICATION NUMBER: 60/136,437
: PRIOR FILING DATE: 1999-05-28
: PRIOR APPLICATION NUMBER: 60/136,439
: PRIOR FILING DATE: 1999-05-28
: PRIOR APPLICATION NUMBER: 60/136,567
: PRIOR FILING DATE: 1999-05-28
: Remaining Prior Application data removed - See File Wrapper or PALM.
: NUMBER OF SEQ ID NOS: 74
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 12
: LENGTH: 415
: TYPE: PRT
: ORGANISM: Homo sapiens
US-10-272-983-12

```

|    |     |                                                               |     |
|----|-----|---------------------------------------------------------------|-----|
| Db | 124 | ALFETVCFASILSITTVSVERYAILHPFRAKLOSTRRRRLRLGICVWGSFVLSPLNTS    | 183 |
| Qy | 176 | IHGKIQHPNGSSVPGSATCTVTKPMWYNLLIOATSFLFYILPMTLISVLYYLMGLRL     | 235 |
| Db | 184 | IHGKIFYHPNGSLVPGSATCTVTKPMWIYNFLIQVTSFLFYLPMTVISVLYYLMALRL    | 243 |
| Qy | 236 | KRDESLBANKVAVNIHNPSPRSKVKMLFVLVLVFAICWTPPHVDRLPFSFVEEWTESLAA  | 295 |
| Db | 244 | KKDKASLEADEGNANIQRCPKSVKMLFVLVLVFAICWAPHIDRLPFSFVEEWSLSLA     | 303 |
| Qy | 296 | VFNLIHVVSQVFFVLLSSAVNPDIYNLSRRPFAFRNVVSTCKWCHPHRHPQGPAAQKI    | 355 |
| Db | 304 | VFNLVHVVSQVFFVLLSSAVNPDIYNLSRRFOAFQNVISFFHKQWHSOHDPQLPPLPAQRN | 363 |
| Qy | 356 | IFLTECHLVELTADGAPQFPQGSIIHNTNLPTA                             | 388 |
| Db | 364 | IFLTECHFVELTIDGPOFCQSSMHNLSHLPTA                              | 396 |

### RESULT 3

```

US-09-782-974C-18
; Sequence 18, Application US/09782974C
; Publication No. US20030082534A1
; GENERAL INFORMATION:
; APPLICANT: Vogeli, Gabriel
; APPLICANT: Lind, Peter
; APPLICANT: Wood, Linda S.
; APPLICANT: Parodi, Luis A.
; TITLE OF INVENTION: No. US20030082534A1el G Protein Coupled Receptor
; FILE REFERENCE: 411USPHRM311
; CURRENT APPLICATION NUMBER: US/09/782,974C
; PRIORITY FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: 60/165,838
; PRIOR FILING DATE: 1999-11-16
; PRIOR APPLICATION NUMBER: 09/714,449
; PRIOR FILING DATE: 2000-11-16
; PRIOR APPLICATION NUMBER: 60/198,568
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: 60/166,071
; PRIOR FILING DATE: 1999-11-17
; PRIOR APPLICATION NUMBER: 60/166,678
; PRIOR FILING DATE: 1999-11-19
; PRIOR APPLICATION NUMBER: 60/173,396
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/184,129
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: 60/185,421
; PRIOR FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: 60/185,554
; PRIOR FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: 60/186,530
; PRIOR FILING DATE: 2000-03-02
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 192
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 249
; TYPE: prt
; ORGANISM: Homo sapiens
US-09-782-974C-18

```





;; TITLE OF INVENTION: ISOLATED G-PROTEIN COUPLED RECEPTORS,  
;; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING GPCR PROTEINS, AND USES  
;; FILE REFERENCE: CL000733CON  
;; CURRENT APPLICATION NUMBER: US/10/270,333  
;; CURRENT FILING DATE: 2002-10-15  
;; PRIOR APPLICATION NUMBER: 60/168,677  
;; PRIOR FILING DATE: 1999-12-03  
;; PRIOR APPLICATION NUMBER: 60/175,691  
;; PRIOR FILING DATE: 2000-01-12  
;; PRIOR APPLICATION NUMBER: 60/191,638  
;; PRIOR FILING DATE: 2000-03-23  
;; NUMBER OF SEQ ID NOS: 198  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 114  
;; LENGTH: 428  
;; TYPE: PRT  
;; ORGANISM: Drosophila  
US-10-270-333-114

Query Match 27.2%; Score 564.5; DB 15; Length 428;  
Best Local Similarity 32.2%; Pred. No. 3.3e-42;  
Matches 118; Conservative 78; Mismatches 104; Indels 67; Gaps 6;  
Qy 25 LAHLCGPKRDL--LPVSAYALIFLVGMNLLVCMVIVRHQTLKPTNYILFSLAVS 82  
Db 6 MSHDLGPPRDLAIVIPVTVVYSLFITGVVGNISTCIVIKKNSMHTATNYILFSLAIS 65  
Qy 83 DLLVLLGMLPIEYEMHNPFLPGVGCYFKTALFETVCFASILSVTTSVVERVVAIVH 142  
Db 66 DFLLLSGVPOEVSINYSKYVPEYEGICIGRGLAETSANATVLTITAFETVRYAICH 125  
Qy 143 PFRAKLESTRRALRILSLVMSFSVSLPNTSIHGKFOHPNGSSVPGSATCTVTKPM 202  
Db 126 PFLQAMSKLSRAIRIIVVWMAIVTAIQAAQFGL--EHY-----SGVEQCGIVRI 177  
Qy 203 WYVNLIIQATSFYILPMTLISVLYLMGLRLKRDLEA----- 243  
Db 178 VKHS--FQLSTFIIFLAPMSIILVLLIGVHLVRSITVEGPASVARRQQLSKVPSDTIL 235  
Qy 244 ----- 244  
Db 236 YRYGGSGTAMFNGGSGACTAGLMGGGAQLSSVGRGLNHYGTRRYRLMLVAVVVGFFL 295  
Qy 272 CWTPEFHVDRLPFSEV----EWTESLAIVENLIHWGSGVFYLSAVNPIIYNLLSRER 327  
Db 296 CWAFPHAQRLAIYAPARGAKLRDHEFVTVTVTVSVGVLYLSTCINPLLYNIMSHKFR 355  
Qy 328 AAFRNV 334  
Db 356 EAFKAVL 362

RESULT 10  
US-10-314-076-17  
;; Sequence 17, Application US/10314076  
;; Publication No. US20030152977A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Bristol-Myers Squibb Company  
;; TITLE OF INVENTION: NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR, HGPRBW34, AND VARIANTS A  
;; FILE REFERENCE: D0197NP  
;; CURRENT APPLICATION NUMBER: US/10/314,076  
;; CURRENT FILING DATE: 2002-12-06  
;; PRIOR APPLICATION NUMBER: U.S. 60/338,371  
;; PRIOR FILING DATE: 2001-12-06  
;; NUMBER OF SEQ ID NOS: 22  
;; SOFTWARE: PatentIn version 3.1  
;; SEQ ID NO 17  
;; LENGTH: 595  
;; TYPE: PRT  
;; ORGANISM: Drosophila melanogaster  
US-10-314-076-17

Query Match 26.3%; Score 546.5; DB 12; Length 595;  
Best Local Similarity 35.1%; Pred. No. 2e-40;  
Matches 120; Conservative 68; Mismatches 115; Indels 39; Gaps 9;  
Qy 14 LMKYLNSTEEYLAHLGPKRSDLSLP-----VSVAYALIFLVGMNLLVCM 60  
Db 26 LTQVLNISADNLTSLLQGLEPEELPTVTPMTPLSLLATLSVGVALIFIAGVGLNLTICI 85  
Qy 61 VIVRHQTLKPTNYILFSLAVSDDLVLGLLPLIYEMWH--NYPFLFGPVCYFKTALP 118  
Db 86 VISRNNFMHTATNFYENLAISDMILLCSGMPQDLYNLWHPDNYP--FSDSICILESLS 143  
Qy 119 ETVCFASILSVTTSVVERVVAIVHPFRAKLESTRRALRILSLVMSFSVPSLNTSIHG 178  
Db 144 ETAANATVLTITAFETVRYAICHPPHQHTMSKLSRAVKFIFAIAALLALP-----QA 199  
Qy 179 IKQHFPGNGSSVPGSATCTVTKPMVYNLIQATSFYILPMTLISVLYLMGLRLKRD 238  
Db 200 IOFSVVMQGM---GTSCMTKNDFFAH--VFVSGFLPFGGPMPTAICVLVYLVIGVKLRS 253  
Qy 239 ESLEA---NKVAVNIHRPSKSVTKMLFVLVLFVAFICWTTPHVDRLPFSF-----VEEW 289  
Db 254 RLQALPRRCYDYNRGISAOQTRVIRMLVAVAVAFICWAPHAQRLMAVVGSTSGIESQW 313  
Qy 290 TESLAAYENLIHWGSGVFYLSAVNPIIYNLLSRERFAAFR 331  
Db 314 FND---VFSILDYTSGLVYFLSTCINPLLYNIMSHKREAPK 352

RESULT 11  
US-10-270-333-195  
;; Sequence 195, Application US/10270333  
;; Publication No. US2003009212A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Cravchik, Anibal  
;; TITLE OF INVENTION: ISOLATED G-PROTEIN COUPLED RECEPTORS,  
;; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING GPCR PROTEINS, AND USES  
;; FILE REFERENCE: CL000733CON  
;; CURRENT APPLICATION NUMBER: US/10/270,333  
;; CURRENT FILING DATE: 2002-10-15  
;; PRIOR APPLICATION NUMBER: 60/168,677  
;; PRIOR FILING DATE: 1999-12-03  
;; PRIOR APPLICATION NUMBER: 60/175,691  
;; PRIOR FILING DATE: 2000-01-12  
;; PRIOR APPLICATION NUMBER: 60/191,638  
;; NUMBER OF SEQ ID NOS: 198  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 195  
;; LENGTH: 595  
;; TYPE: PRT  
;; ORGANISM: Drosophila  
US-10-270-333-195

Query Match 26.3%; Score 546.5; DB 15; Length 595;  
Best Local Similarity 35.1%; Pred. No. 2e-40;  
Matches 120; Conservative 68; Mismatches 115; Indels 39; Gaps 9;  
Qy 14 LMKYLNSTEEYLAHLGPKRSDLSLP-----VSVAYALIFLVGMNLLVCM 60  
Db 26 LTQVLNISADNLTSLLQGLEPEELPTVTPMTPLSLLATLSVGVALIFIAGVGLNLTICI 85  
Qy 61 VIVRHQTLKPTNYILFSLAVSDDLVLGLLPLIYEMWH--NYPFLFGPVCYFKTALP 118  
Db 86 VISRNNFMHTATNFYENLAISDMILLCSGMPQDLYNLWHPDNYP--FSDSICILESLS 143  
Qy 119 ETVCFASILSVTTSVVERVVAIVHPFRAKLESTRRALRILSLVMSFSVPSLNTSIHG 178  
Db 144 ETAANATVLTITAFETVRYAICHPPHQHTMSKLSRAVKFIFAIAALLALP-----QA 199  
Qy 179 IKQHFPGNGSSVPGSATCTVTKPMVYNLIQATSFYILPMTLISVLYLMGLRLKRD 238

```
Db 200 IQFSVVMQGM-----GTSCITMKNDFAH--VFVAVSGFLFEGGPMATACVLYLVIGVKLRK 253
QY 239 ESLEA---NKVAVNTHPRSKSKTKMLFVLVFAICWTPFHVDRLFFSF-----VEEW 289
Db 254 RLQALPRCYDNRGISAQTVIRMLVAVAVAFICWAPFHAQRLMAVYGSTGIESOW 313
QY 290 TESLAAVNLHIVSGVFYLSAVNPITYNLLSRFRFAFR 331
Db 314 FND---VFSILDYTSGLVFLSTCINPLLYNIMSHKREAFK 352

RESULT 12
US-10-270-333-192
; Sequence 192, Application US/10270333
; Publication No. US2003092124A1
; GENERAL INFORMATION:
; APPLICANT: Cravchik, Anibal
; TITLE OF INVENTION: ISOLATED G-PROTEIN COUPLED RECEPTORS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING GPCR PROTEINS, AND USES
; FILE REFERENCE: CL000733CON
; CURRENT APPLICATION NUMBER: US/10/270,333
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: 60/168,677
; PRIOR FILING DATE: 1999-12-03
; PRIOR APPLICATION NUMBER: 60/175,691
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/191,638
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 192
; LENGTH: 660
; TYPE: PRT
; ORGANISM: Drosophila
US-10-270-333-192

Query Match 25.3%; Score 525.5; DB 15; Length 660;
Best Local Similarity 29.7%; Pred. No. 1.7e-38;
Matches 127; Conservative 74; Mismatches 153; Indels 73; Gaps 9;

QY 18 LNSTEYLAHLCG-----PKRSDLSL--PVSAYALIFLVGMGNLNCVMY 61
Db 72 LNTITENLNLGSGTNGTNAADSPVDESILTRLTALTCVYALIFVAGVLNLTICIV 131
QY 62 IVRHQTLKPTNYLYLESYSLVSDLLVLLLCMPLEIYEMWNYPFELGVCVCEKTFETV 121
Db 132 ISRNPMHTATNFIENLAVSDLLILVSGIPQELYNLWYPTDAMCIMGVLSMA 191
QY 122 CFASILSVTVSVERYVAIVHPFRAKLESTRRALRILSLVWSFSVFSPLNPTSIHGIRK 181
Db 192 ANATVLTITAFVRYIAICHPFRQHTMSKLSRAKFIETAILAFLALPQAMQPSVY 251
QY 182 QHPFGSSVPGSATCTVTTRKPMVYNLIQATSFELYPMLTISVLYLMGLRLKRD--- 238
Db 252 QN--EGYS-----CTMENDFAH--VFVAVSGFIFEGGPMATACVLYLVIGVKLRSL 301
QY 239 ESLEANKAVNTHPRSKSKTKMLFVLVFAICWTPFHVDRLFFSF-----VEEWTES 292
Db 302 QSLPRTFDNRGLNAQGRVIRMLVAVAVAFICWAPFHAQRLMAVYGLNLTNIGISRDA 361
QY 293 LAAVNLIHWSGVFFYLSAVNPITYNLLSRFRFAFRNVVSPCKMKCHPRHPOG--- 349
Db 362 FNDYFRLDYTSGLVFLSTCINPLLYNIMSHKREAFKITLTROFGLARNHHQSOHH 421
QY 350 -----PPAQKIFLFECHLVETEDAGPQFPQGS 380
Db 422 QHNSALLRQSGMRLOPASCVSNNALPEYGSYRVVQPRC-----RDANHQLSLQDSI 475
QY 381 HNTNLT 387
Db 476 RTTITTT 482
```

## RESULT 13

```
US-10-225-567A-207
; Sequence 207, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: LifeSpan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burmer, Glenna C.
; APPLICANT: Roush, Christine L.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPT
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144
; PRIOR FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 207
; LENGTH: 418
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-225-567A-207
```

```
Query Match 24.0%; Score 499; DB 15; Length 418;
Best Local Similarity 33.0%; Pred. No. 2.2e-36;
Matches 116; Conservative 65; Mismatches 103; Indels 68; Gaps 12;

QY 40 VSVAYALIFLVGMGNLNCVMIVRH---OTLKTPTNYLYLESYSLVSDLLVLLLCMPLEIY 96
Db 66 VTAVYLALFVVGTVGTNTVTAFTLARKKSLQSLQSTVYHGLGSLALSDLLTLLAMPVELY 125
QY 97 E-MWNYNPFELGPGVC---YFKTALPETVCFASILSVTVSVERYVAIVHPFRAKLESTR 152
Db 126 NFIWVHPWAFGDAGCRGYF---LRDACTYATALNVAISLVSVRYLAICHPKAKTLMRS 182
QY 153 RRALRILSLVWSFSVVSFLP-----NTSIHGIRKFOHPNGSSVPGSATCTVTTRPMV 204
Db 183 SRTKRFISAILWASALLTVPLMTNGEQNRSDG---QH-----AGGLVCTPTTHTAT 232
QY 205 YNLITQATSFELYPMLTISVLYLMGLRLKRDSELEANKVAVNTHR----- 252
Db 233 VKVVIQVNTFMGFIFPMVVISLV-----NTIIANKLTVMVYRQAAEQGVCTVGG 281
QY 253 -----PSR-----KSVTKMLFVLVFAICWTPFHVDRLFFSFV--EETESLA 296
Db 282 EHSFTSMATEPGRVQALRHGVRVLRVAVVAVVVCWLPYHVRRLMFCYISDEQWTPFLYDF 341
QY 297 FNLHIVSGVFYLSAVNPITYNLLSRFRFAFRNVVSPCKMKCHPRHPR 347
Db 342 YHYFYNTNALFVVSSTINPILYNLYSANFRHIFLATLACLCPVWRRRRKR 393
```

## RESULT 14

```
US-10-225-567A-473
; Sequence 473, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: LifeSpan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burmer, Glenna C.
; APPLICANT: Roush, Christine L.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPT
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144
; PRIOR FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 473
; LENGTH: 412
```



**THIS PAGE BLANK**





|                                                                                         |     |                                                           |     |
|-----------------------------------------------------------------------------------------|-----|-----------------------------------------------------------|-----|
| ; TYPE: PRT                                                                             |     | ; ORGANISM: Homo sapiens                                  |     |
| US-10-272-983-12                                                                        |     |                                                           |     |
| Query Match                                                                             |     | 100.0%; Score 2185; DB 12; Length 415;                    |     |
| Best Local Similarity                                                                   |     | 100.0%; Pred. No. 1.6e-186;                               |     |
| Matches 415; Conservative                                                               |     | 0; Mismatches 0; Indels 0; Gaps 0;                        |     |
| QY                                                                                      | 1   | MSGMEKLNASWYQOKLEDPQKHNLNSTEYLAFLCGPRRSHFFLPVSVVYPIFVVG   | 60  |
| DB                                                                                      | 1   | MSGMEKLNASWYQOKLEDPQKHNLNSTEYLAFLCGPRRSHFFLPVSVVYPIFVVG   | 60  |
| QY                                                                                      | 61  | IGNVLVCLVILQHOAMKTPNTNYLFLAVSDLLVLLGMPLEYEMRNYPFLFGVGY    | 120 |
| DB                                                                                      | 61  | IGNVLVCLVILQHOAMKTPNTNYLFLAVSDLLVLLGMPLEYEMRNYPFLFGVGY    | 120 |
| QY                                                                                      | 121 | FKTALFETVCFASILSITTVSVERYVAILHPFRAKLQSTRRRALRTLGIWGFSLP   | 180 |
| DB                                                                                      | 121 | FKTALFETVCFASILSITTVSVERYVAILHPFRAKLQSTRRRALRTLGIWGFSLP   | 180 |
| QY                                                                                      | 181 | NTSIHGKHPYFNGSLVPGSATCTVIKPMWIYNTFIQVTSFLFYLLPMTVISLVYLMA | 240 |
| DB                                                                                      | 181 | NTSIHGKHPYFNGSLVPGSATCTVIKPMWIYNTFIQVTSFLFYLLPMTVISLVYLMA | 240 |
| QY                                                                                      | 241 | LRLKDKSLEADDEGNANIQRCKSVNKMFLVFLVFAICWAPPHIDRLFFSFVEEWS   | 300 |
| DB                                                                                      | 241 | LRLKDKSLEADDEGNANIQRCKSVNKMFLVFLVFAICWAPPHIDRLFFSFVEEWS   | 300 |
| QY                                                                                      | 301 | LAAVFNLVHVSGVFFYLSAVNPIIYNLLSRFQAQFQNVISSEHFKQHSQHDPLPA   | 360 |
| DB                                                                                      | 301 | LAAVFNLVHVSGVFFYLSAVNPIIYNLLSRFQAQFQNVISSEHFKQHSQHDPLPA   | 360 |
| QY                                                                                      | 361 | QRNIFTECHFVELTEDIGPQPCOSSMNSHLPALTALSSEQMSRTNYQSFHNKT     | 415 |
| DB                                                                                      | 361 | QRNIFTECHFVELTEDIGPQPCOSSMNSHLPALTALSSEQMSRTNYQSFHNKT     | 415 |
| RESULT 2                                                                                |     |                                                           |     |
| US-10-225-567A-557                                                                      |     |                                                           |     |
| ; Sequence 557, Application US/10225567A                                                |     |                                                           |     |
| ; Publication No. US20030113798A1                                                       |     |                                                           |     |
| ; GENERAL INFORMATION:                                                                  |     |                                                           |     |
| ; APPLICANT: LifeSpan Biosciences                                                       |     |                                                           |     |
| ; APPLICANT: Brown, Joseph P.                                                           |     |                                                           |     |
| ; APPLICANT: Burmer, Glenna C.                                                          |     |                                                           |     |
| ; APPLICANT: Roush, Christine L.                                                        |     |                                                           |     |
| ; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS |     |                                                           |     |
| ; FILE REFERENCE: 1920-4-4                                                              |     |                                                           |     |
| ; CURRENT APPLICATION NUMBER: US/10/225,567A                                            |     |                                                           |     |
| ; CURRENT FILING DATE: 2001-12-19                                                       |     |                                                           |     |
| ; PRIOR APPLICATION NUMBER: 60/257,144                                                  |     |                                                           |     |
| ; PRIOR FILING DATE: 2000-12-19                                                         |     |                                                           |     |
| ; NUMBER OF SEQ ID NOS: 2292                                                            |     |                                                           |     |
| ; SOFTWARE: PatentIn version 3.1                                                        |     |                                                           |     |
| ; SEQ ID NO 557                                                                         |     |                                                           |     |
| ; LENGTH: 412                                                                           |     |                                                           |     |
| ; TYPE: PRT                                                                             |     |                                                           |     |
| ; ORGANISM: Homo sapiens                                                                |     |                                                           |     |
| US-10-225-567A-557                                                                      |     |                                                           |     |
| Query Match                                                                             |     | 99.3%; Score 2170; DB 15; Length 412;                     |     |
| Best Local Similarity                                                                   |     | 100.0%; Pred. No. 3.4e-185;                               |     |
| Matches 412; Conservative                                                               |     | 0; Mismatches 0; Indels 0; Gaps 0;                        |     |
| QY                                                                                      | 4   | MEKLNASWYQOKLEDPQKHNLNSTEYLAFLCGPRRSHFFLPVSVVYPIFVVGIGN   | 63  |
| DB                                                                                      | 1   | MEKLNASWYQOKLEDPQKHNLNSTEYLAFLCGPRRSHFFLPVSVVYPIFVVGIGN   | 60  |
| QY                                                                                      | 64  | VLVCLVILQHOAMKTPNTNYLFLAVSDLLVLLGMPLEYEMRNYPFLFGVGYEKT    | 123 |
| DB                                                                                      | 61  | VLVCLVILQHOAMKTPNTNYLFLAVSDLLVLLGMPLEYEMRNYPFLFGVGYEKT    | 120 |
| QY                                                                                      | 124 | ALFETVCFASILSITTVSVERYVAILHPFRAKLQSTRRRALRTLGIWGFSLPNTS   | 183 |

|                           |    |                                                          |     |
|---------------------------|----|----------------------------------------------------------|-----|
| ; TYPE: PRT               |    | ; ORGANISM: Homo sapiens                                 |     |
| US-09-782-974C-18         |    |                                                          |     |
| Query Match               |    | 57.3%; Score 1251; DB 11; Length 249;                    |     |
| Best Local Similarity     |    | 98.8%; Pred. No. 1.3e-103;                               |     |
| Matches 239; Conservative |    | 1; Mismatches 2; Indels 0; Gaps 0;                       |     |
| QY                        | 2  | SGMEKLNASWYQOKLEDPQKHNLNSTEYLAFLCGPRRSHFFLPVSVVYPIFVVGVI | 61  |
| DB                        | 1  | SGMEKLNASWYQOKLEDPQKHNLNSTEYLAFLCGPRRSHFFLPVSVVYPIFVVGVI | 60  |
| QY                        | 62 | GNVLVCLVILQHOAMKTPNTNYLFLAVSDLLVLLGMPLEYEMRNYPFLFGVGYCF  | 121 |
| DB                        | 61 | GNVLVCLVILQHOAMKTPNTNYLFLAVSDLLVLLGMPLEYEMRNYPFLFGVGYCF  | 120 |

|                           |    |                                                          |     |
|---------------------------|----|----------------------------------------------------------|-----|
| ; TYPE: PRT               |    | ; ORGANISM: Homo sapiens                                 |     |
| US-09-782-974C-18         |    |                                                          |     |
| Query Match               |    | 57.3%; Score 1251; DB 11; Length 249;                    |     |
| Best Local Similarity     |    | 98.8%; Pred. No. 1.3e-103;                               |     |
| Matches 239; Conservative |    | 1; Mismatches 2; Indels 0; Gaps 0;                       |     |
| QY                        | 2  | SGMEKLNASWYQOKLEDPQKHNLNSTEYLAFLCGPRRSHFFLPVSVVYPIFVVGVI | 61  |
| DB                        | 1  | SGMEKLNASWYQOKLEDPQKHNLNSTEYLAFLCGPRRSHFFLPVSVVYPIFVVGVI | 60  |
| QY                        | 62 | GNVLVCLVILQHOAMKTPNTNYLFLAVSDLLVLLGMPLEYEMRNYPFLFGVGYCF  | 121 |
| DB                        | 61 | GNVLVCLVILQHOAMKTPNTNYLFLAVSDLLVLLGMPLEYEMRNYPFLFGVGYCF  | 120 |

RESULT 3  
US-09-782-974C-18  
; Sequence 18, Application US/09782974C  
; Publication No. US20030082534A1  
; GENERAL INFORMATION:  
; APPLICANT: Vogeli, Gabriel  
; APPLICANT: Lind, Peter  
; APPLICANT: Wood, Linda S.  
; APPLICANT: Parodi, Luis A.  
; TITLE OF INVENTION: NO. US20030082534A1 G Protein Coupled Receptor  
; FILE REFERENCE: 411USPHRM311  
; CURRENT APPLICATION NUMBER: US/09/782,974C  
; CURRENT FILING DATE: 2002-09-04  
; PRIOR APPLICATION NUMBER: 60/165,838  
; PRIOR FILING DATE: 1999-11-16  
; PRIOR APPLICATION NUMBER: 60/174,449  
; PRIOR FILING DATE: 2000-11-16  
; PRIOR APPLICATION NUMBER: 60/198,568  
; PRIOR FILING DATE: 2000-04-20  
; PRIOR APPLICATION NUMBER: 60/166,071  
; PRIOR FILING DATE: 1999-11-17  
; PRIOR APPLICATION NUMBER: 60/166,678  
; PRIOR FILING DATE: 1999-11-19  
; PRIOR APPLICATION NUMBER: 60/173,396  
; PRIOR FILING DATE: 1999-12-28  
; PRIOR APPLICATION NUMBER: 60/184,129  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: 60/185,421  
; PRIOR FILING DATE: 2000-02-28  
; PRIOR APPLICATION NUMBER: 60/185,554  
; PRIOR FILING DATE: 2000-02-28  
; PRIOR APPLICATION NUMBER: 60/186,530  
; PRIOR FILING DATE: 2000-03-02  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 192  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 18  
; LENGTH: 249  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-782-974C-18

|    |     |                                                          |     |
|----|-----|----------------------------------------------------------|-----|
| Qy | 122 | KTALFETVCFASILSITTSVERVAILHPERAKLQSTRRALRILGIWGFVSFLSN   | 181 |
|    |     |                                                          |     |
|    |     |                                                          |     |
| Db | 121 | KTALFETVCFASILSITTSVERVAILHPERAKLQSTRRALRILGIWGFVSFLSN   | 180 |
|    |     |                                                          |     |
| Qy | 182 | TSIHGKHFHPNGSLVPGSATCTVIKPMWIYNFIQVTSFLFYLLPMTVISLYYIMAL | 241 |
|    |     |                                                          |     |
| Db | 181 | TSIHGKHFHPNGSLVPGSATCTVIKPMWIYNFIQVTSFLFYLLPMTVISLYYIMAL | 240 |
|    |     |                                                          |     |
| Qy | 242 | RL 243                                                   |     |
|    |     |                                                          |     |
| Db | 241 | RV 242                                                   |     |

RESULT 4  
US-10-251-385-114  
; Sequence 114, Application US/10251385  
; Publication No. US20030105292A1  
; GENERAL INFORMATION:  
; APPLICANT: Behan, Dominic P.  
; APPLICANT: Chalmers, Derek T.  
; APPLICANT: Liaw, Chen W.  
; TITLE OF INVENTION: No. US20030105292A1-Endogenous, Constitutively Activated Human G  
; TITLE OF INVENTION: Protein-Coupled  
; TITLE OF INVENTION: Receptors  
; FILE REFERENCE: AREN-0040  
; CURRENT APPLICATION NUMBER: US/10/251.385  
; CURRENT FILING DATE: 2002-09-20  
; PRIOR APPLICATION NUMBER: US/09/170,496  
; PRIOR FILING DATE: 1998-10-13  
; NUMBER OF SEQ ID NOS: 294  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 114  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-10-251-385-114

[illegible]

```

; APPLICANT: Chalmers, Derek T.
; APPLICANT: Liaw, Chen W.
; TITLE OF INVENTION: No. US20030105292A1-Endogenous, Constitutively Activated Human
; TITLE OF INVENTION: Protein-Coupled
; TITLE OF INVENTION: Receptors
; FILE REFERENCE: AREN-0040
; CURRENT APPLICATION NUMBER: US/10/251,385
; CURRENT FILING DATE: 2002-09-20
; PRIOR APPLICATION NUMBER: US/09/170,496
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 224
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-251-385-224

```

|                       |       |              |                                                          |            |     |        |      |    |
|-----------------------|-------|--------------|----------------------------------------------------------|------------|-----|--------|------|----|
| Query Match           | 43.1% | Score        | 942;                                                     | DB         | 15; | Length | 403; |    |
| Best Local Similarity | 50.8% | Pred.        | No. 8.1e-76;                                             |            |     |        |      |    |
| Matches               | 180;  | Conservative | 63;                                                      | Mismatches | 89; | Indels | 22;  |    |
|                       |       |              |                                                          |            |     |        | Caps | 6; |
| Qy                    | 20    | DP           | QKHLNSTEELAF-LCGPRSHFPLPVSVVVPFVYVGVIGNVLVCLVLIQHOAMKT   | 78         |     |        |      |    |
| Db                    | 13    | DP           | --EDLNTDEALRUKYLGPOQTELFMPICATYLLIFVVGAVNGTCLVLIURHAMRT  | 70         |     |        |      |    |
| Qy                    | 79    | PTNY         | YLFSLAVSDLLVLLCMPEVEMRNYPFLFPGVGCYFKTALFTFVCFSILSIT      | 138        |     |        |      |    |
| Db                    | 71    | PTNY         | YLFSLAVSDLLVLLVGLPLELEMMHNYFELGVGCYFRTLFLFEMVCLASVLNVT   | 130        |     |        |      |    |
| Qy                    | 139   | TVS          | ERYVAILHPFRAKLOSTRRRALRILGIWGVGSVFLSPNTSINGIKFHYFNGSLV   | 198        |     |        |      |    |
| Db                    | 131   | ALS          | ERYVAVVHPLOARSVMVTRAHVRVLVAVNGVLAMLCSLPTSLHIGRLQHVPCRGPV | 190        |     |        |      |    |
| Qy                    | 199   | PGS          | ACTVIKPMWYIFITQVTSFLYLLPMTVISVLYLMALRLKKDKSLEADGN---     | 255        |     |        |      |    |
| Db                    | 191   | POS          | AVCMVLRPRALYNMVQVTTALLFPCLPMTMSVLYLLIGURLRERLLLMQEAARGR  | 250        |     |        |      |    |
| Qy                    | 256   | ---          | ANTORP-----RKSVNKLFLVLVFAICWAPHIDRLRFPSFVEEMSESIAAV      | 304        |     |        |      |    |
| Db                    | 251   | SAAR         | SRVTCRLOQHDGRROVKMFLVLVVVFGICWAPHADRVKMSVSVQWTDGLHLA     | 310        |     |        |      |    |
| Qy                    | 305   | FN           | LHVSVGVFFYLSAVNPITYNLLSRFQAQFQV-----SSFH---KOMHSQH       | 353        |     |        |      |    |
| Db                    | 311   | FOR          | HVHTSGITFFYLSAANPVLYSLMSSRPETFOEALPCGACCHLRPRRSHH        | 364        |     |        |      |    |

|                       |              |                    |                |             |
|-----------------------|--------------|--------------------|----------------|-------------|
| Query Match           | 43.1%        | Score 942;         | DB 15;         | Length 403; |
| Best Local Similarity | 50.8%        | Pred. No. 8.1e-76; |                |             |
| Matches 180:          | Conservative | 63;                | Mismatches 89; |             |
|                       |              |                    | Indel's 22;    |             |
|                       |              |                    | Gaps 6;        |             |

QY 20 DPQKHLNSTEYLAF--LCGPRRSHFFLPVSVVYVPIFVVGIVGNVLVCLVILQHOAMKT 78  
DB 13 DP--EDLNTDEALRLKYLGPQOQTEFMPICATYLLIFVVGAVGNGLTCLVILRHKAMRT 70  
QY 79 PTNYLFSLAUSDLLVLLGMPLEVEMRNYPFLFGPGVCYKFTALFETVCFASLISIT 138  
DB 71 PTNYLFSLAUSDLLVLLGMPLEVEMRNYPFLFGPGVCYKFTALFETVCFASLISIT 130  
QY 139 TVSVRYVAILHFRKALQSTRRALRIILGIWGFVSLPNTSHGKHFYFPGNSLV 198  
DB 131 ALSVRYVAVHPLQARSMVTRAHVRVILGAVNGLAMLSLNTSLHGIQLHVPGRGPV 190  
QY 199 PGSATCTVAKPMIYFIQVTSFLYLLPMTVISVLYLMALRLKKDKSLEADGN-- 255  
DB 191 PDSAVCMVPRALYNMVQTTALLFCLPMAIMSVLYLLIGLRRLRLLLMQEAKGRG 250  
QY 256 ---ANTORPC-----RKSNKMLFVLVLVFAICWAPPHIDRLFFSFVEWSESAAV 304  
DB 251 SAAARSRYTCRLQHQDRGRQVTKMLFVLVWVFGICWAPFHADRVWMSVVSQWTDGLHLA 310  
QY 305 ENLVHVSVGVFFLSSAVNPILYNLLSRFQAAFNVI---SSFH--KOWHSQH 353  
DB 311 FOHVHVISGIFFLYLSAANPVLVSLMSSRFRETFOEALCLGACCHRLRPRHSSH 364

RESULT 7  
US-10-290-078-18  
; Sequence 18, Application US/10290078  
; Publication No. US20030124596A1  
; GENERAL INFORMATION:  
; APPLICANT: Carrioll, Joseph A.  
; TITLE OF INVENTION: Methods and Compositions for Treating  
; TITLE OF INVENTION: Hematological Disorders Using 232, 2059, 10630, 12848, 13875,  
; FILE REFERENCE: 14395.14618, 17692 or 58874  
; CURRENT APPLICATION NUMBER: US/10/290,078  
; CURRENT FILING DATE: 2002-11-07  
; NUMBER OF SEQ ID NOS: 27  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 18  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Homo Sapien  
US-10-290-078-18

Query Match 43.1%; Score 942; DB 15; Length 403;  
Best Local Similarity 50.8%; Pred. No. 8.1e-76;  
Matches 180; Conservative 63; Mismatches 89; Indels 22; Gaps 6;

QY 20 DPQKHLNSTEYLAF--LCGPRRSHFFLPVSVVYVPIFVVGIVGNVLVCLVILQHOAMKT 78  
DB 13 DP--EDLNTDEALRLKYLGPQOQTEFMPICATYLLIFVVGAVGNGLTCLVILRHKAMRT 70  
QY 79 PTNYLFSLAUSDLLVLLGMPLEVEMRNYPFLFGPGVCYKFTALFETVCFASLISIT 138  
DB 71 PTNYLFSLAUSDLLVLLGMPLEVEMRNYPFLFGPGVCYKFTALFETVCFASLISIT 130  
QY 139 TVSVRYVAILHFRKALQSTRRALRIILGIWGFVSLPNTSHGKHFYFPGNSLV 198  
DB 131 ALSVRYVAVHPLQARSMVTRAHVRVILGAVNGLAMLSLNTSLHGIQLHVPGRGPV 190  
QY 199 PGSATCTVAKPMIYFIQVTSFLYLLPMTVISVLYLMALRLKKDKSLEADGN-- 255  
DB 191 PDSAVCMVPRALYNMVQTTALLFCLPMAIMSVLYLLIGLRRLRLLLMQEAKGRG 250  
QY 256 ---ANTORPC-----RKSNKMLFVLVLVFAICWAPPHIDRLFFSFVEWSESAAV 304  
DB 251 SAAARSRYTCRLQHQDRGRQVTKMLFVLVWVFGICWAPFHADRVWMSVVSQWTDGLHLA 310  
QY 305 ENLVHVSVGVFFLSSAVNPILYNLLSRFQAAFNVI---SSFH--KOWHSQH 353  
DB 311 FOHVHVISGIFFLYLSAANPVLVSLMSSRFRETFOEALCLGACCHRLRPRHSSH 364

RESULT 8  
US-09-804-551B-26  
; Sequence 26, Application US/09804551B  
; Patent No. US20020056151A1  
; GENERAL INFORMATION:  
; APPLICANT: Bayer Aktiengesellschaft  
; TITLE OF INVENTION: Receptors for peptides from insects  
; FILE REFERENCE: de A 34 394  
; CURRENT APPLICATION NUMBER: US/09/804,551B  
; CURRENT FILING DATE: 2001-03-12  
; PRIOR APPLICATION NUMBER: DE 100 13 618.4  
; NUMBER OF SEQ ID NOS: 92  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 26  
; LENGTH: 419  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
US-09-804-551B-26

Query Match 25.3%; Score 552.5; DB 9; Length 419;  
Best Local Similarity 33.2%; Pred. No. 4.2e-41;  
Matches 121; Conservative 73; Mismatches 98; Indels 73; Gaps 7;

QY 38 GPRRS--HFFLPVSVVYVPIFVVGIVGNVLVCLVILQHOAMKTPTNYLFSLAUSDLLVL 95  
DB 11 GPPRDPLAIVPVTVYVSLIFITGVVGNISTCIVIKRSMHTATNYLFSLAUSDLL 70  
QY 96 LLGMPLEVEMRNYPFLFGPGVCYKFTALFETVCFASLISITVSVERVAILHHPRAK 155  
DB 71 LSGVPEVSYNSKYPPVGEYICIGRLLAETSANATVLTITAFIVERYIAICHPLGQ 130  
QY 156 LOSTRRALRIILGIWGFVSLPNTSHGKHFYFPGNSLVPGSATCTVIKPMIYNF 215  
DB 131 AMSKLSRAIRIIVLWVMAITVAPQAAQFGIE-HY-----SGVEQCGIVRVKHSF 182  
QY 216 IIQVTSFLYLLPMTVISVLYLMALRLKKDKSLEADGNANLQRCR----- 263  
DB 183 --QLSTFIFFLAPMSIILVLLIGVHLRYSTLV---EGPASVARQOLKSVSPDILYR 237  
QY 264 -----KSNKMLFVLVLVFAICW 281  
DB 238 YGSGGTAMFNGGSGAGTAGLGGSGAQLSSVGRNLNHYGTRVLRMLVAVVVCFLCW 297  
QY 282 APFHIDRLFFSFVEWSES-----AAVFNLDVHVSVGVFFYLSAVNPILYNLLSRFQAA 337  
DB 298 APFHAQRLIAIYAPARGAKLRDQHEFVYVMTVYVSGVLYLSTCINPLLYNINSHKREA 357  
QY 338 FQNV 342  
DB 358 FRAVL 362

RESULT 9  
US-10-270-333-114  
; Sequence 114, Application US/10270333  
; Publication No. US20030092124A1  
; GENERAL INFORMATION:  
; APPLICANT: Gravchik, Anibal  
; TITLE OF INVENTION: ISOLATED G-PROTEIN COUPLED RECEPTORS,  
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING GPCR PROTEINS, AND USES  
; TITLE OF INVENTION: THEREOF AS INSECTICIDAL TARGETS  
; FILE REFERENCE: CL000733CON  
; CURRENT APPLICATION NUMBER: US/10/270,333  
; CURRENT FILING DATE: 2002-10-15  
; PRIOR APPLICATION NUMBER: 60/168,677  
; PRIOR FILING DATE: 1999-12-03  
; PRIOR APPLICATION NUMBER: 60/175,691  
; PRIOR FILING DATE: 2000-01-12  
; PRIOR APPLICATION NUMBER: 60/191,638  
; PRIOR FILING DATE: 2000-03-23

```
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 114
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Drosophila
US-10-270-333-114

Query Match 25.3%; Score 552.5; DB 15; Length 428;
Best Local Similarity 33.2%; Pred. No. 4.3e-41;
Matches 121; Conservative 73; Mismatches 98; Indels 73; Gaps 7;

Qy 38 GPRRS--HFELPVSVVTVFVGVGIVGNLVCLVILQHQAMKPTNYLFLSLAVSDLLVL 95
Db 11 GPRDPLAIVPTVTVYSLFITGVGNGISTCIVIKKRNMTATNYLFLSLAISDFLL 70
Qy 96 LIGMPLEVEMWRYNPLFGVGCYFKTALFETVCFASILSITTVSVERVAILHPFRK 155
Db 71 LSGVPQSVSWSKYPVFGYICIGRLLAETSANATVLTITFTVRYIAICHPELQ 130
Qy 156 LQSTRRALRILGIVMGFSVLSFNPNTSIHGKIFHYPPNGSLVPGSATCTVIKPMWYNF 215
Db 131 AMSKLSRAIRIIVLWMAIVTAIPQAAQFGE-HY-----SGVEQCGIVRVYKHSE 182
Qy 216 IIQVTSFLFLLPMTVTSVLYLMLRKDKSLEADGNANTORPC----- 263
Db 183 --QLSTFEFLAPMSIILVLLIGVHLRSTLV---EGPASVARROOLKSVPSDTILYR 237
Qy 264 -----KSNKMLFVLVLFVFAICW 281
Db 238 YGGSGTAMSGGGGAGTAGLMGGGAQLSSVGRGLNHYGTRVRLMLVAVVYCFPLCW 297
Qy 282 APFHIDRLFFSFEWSESL-----AAVFNLVHVVGFFYLSSAVNPPIIYNLLSRFOAA 337
Db 298 APFHQRLIAIYAPARAKLRDQHEFYVTVYVTVYVTVYVTVYVTVYVTVYVTVYVTVY 357
Qy 338 FQWVI 342
Db 358 FKAFL 362

RESULT 10
US-10-314-076-17
; Sequence 17, Application US/10314076
; Publication No. US20030152977A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR, HGPBMY34, AND VARIANTS A
; FILE REFERENCE: D0197NP
; CURRENT APPLICATION NUMBER: US/10/314.076
; PRIOR FILING DATE: 2002-12-06
; PRIOR APPLICATION NUMBER: U.S. 60/338,371
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17
; LENGTH: 595
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-10-314-076-17

Query Match 23.6%; Score 515; DB 12; Length 595;
Best Local Similarity 35.6%; Pred. No. 1.4e-37;
Matches 110; Conservative 66; Mismatches 95; Indels 38; Gaps 9;

Qy 48 VSVVYVPFVGVGIVGNLVCLVILQHQAMKPTNYLFLSLAVSDLLVLLGMPLEVYEMW 107
Db 65 LSVGYALIFAGVLGNLTICIVISRNFMHTATNFYLFNLAISDMILLCSGMPQDLYNLW 124
Qy 108 R--NYPFLPGVGCYFKTALFETVCFASILSITTVSVERVAILHPFRKLQSTRRALR 165
Db 125 HPDNYP--FSDSICILESVLSEAAANATVLTITFTVRYIAICHPPROHTMSKLSRAVK 182
Qy 166 ILGIVMGFSVLSFNPNTSIHGKIFHYPPNGSLVPGSATCTVIKPMWYNFIIQVTSFLFY 225
Db 183 FIFAIWIAALLALP-----QAIQFSSVMQGM-----GTSCMTKNDFFAH--VFVAVSGFLFF 232
Qy 226 LLPMTVISVLYLMLRKDKSLEADGNANTORPC-----RKSVMKMLFVLVVLV 276
Db 233 GGPMTAICVLYLVIGVKLKRSLLOA-----LPRRCYDYNRGISASQATRVIRMLVAVAVA 286
Qy 277 FATCWAPFHIDRLFFSF-----VEEWSSESAAVFNLVHVVGFFYLSSAVNPPIIYNLL 330
Db 287 FFICWAPFHAQRLMAVYGSTGIESQWEND---VFSILDYTSGLVYELSTCINPLLYNIM 343
Qy 331 SRFEQAFQ 339
Db 344 SHKFREAFK 352

RESULT 11
US-10-270-333-195
; Sequence 195, Application US/10270333
; Publication No. US20030092124A1
; GENERAL INFORMATION:
; APPLICANT: Cravchik, Anibal
; TITLE OF INVENTION: ISOLATED G-PROTEIN COUPLED RECEPTORS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING GPCR PROTEINS, AND USES
; FILE REFERENCE: CL000733CON
; CURRENT APPLICATION NUMBER: US/10/270.333
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: 60/168,677
; PRIOR FILING DATE: 1999-12-03
; PRIOR APPLICATION NUMBER: 60/175,691
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/191,638
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 195
; LENGTH: 595
; TYPE: PRT
; ORGANISM: Drosophila
US-10-270-333-195

Query Match 23.6%; Score 515; DB 15; Length 595;
Best Local Similarity 35.6%; Pred. No. 1.4e-37;
Matches 110; Conservative 66; Mismatches 95; Indels 38; Gaps 9;

Qy 48 VSVVYVPFVGVGIVGNLVCLVILQHQAMKPTNYLFLSLAVSDLLVLLGMPLEVYEMW 107
Db 65 LSVGYALIFAGVLGNLTICIVISRNFMHTATNFYLFNLAISDMILLCSGMPQDLYNLW 124
Qy 108 R--NYPFLPGVGCYFKTALFETVCFASILSITTVSVERVAILHPFRKLQSTRRALR 165
Db 125 HPDNYP--FSDSICILESVLSEAAANATVLTITFTVRYIAICHPPROHTMSKLSRAVK 182
Qy 166 ILGIVMGFSVLSFNPNTSIHGKIFHYPPNGSLVPGSATCTVIKPMWYNFIIQVTSFLFY 225
Db 183 FIFAIWIAALLALP-----QAIQFSSVMQGM-----GTSCMTKNDFFAH--VFVAVSGFLFF 232
Qy 226 LLPMTVISVLYLMLRKDKSLEADGNANTORPC-----RKSVMKMLFVLVVLV 276
Db 233 GGPMTAICVLYLVIGVKLKRSLLOA-----LPRRCYDYNRGISASQATRVIRMLVAVAVA 286
Qy 277 FATCWAPFHIDRLFFSF-----VEEWSSESAAVFNLVHVVGFFYLSSAVNPPIIYNLL 330
Db 287 FFICWAPFHAQRLMAVYGSTGIESQWEND---VFSILDYTSGLVYELSTCINPLLYNIM 343
Qy 331 SRFEQAFQ 339
Db 344 SHKFREAFK 352
```

## RESULT 12

US-10-270-333-192  
; Sequence 192, Application US/10270333  
; Publication No. US20030092124A1  
; GENERAL INFORMATION:  
; APPLICANT: Cravchik, Anibal  
; TITLE OF INVENTION: ISOLATED G-PROTEIN COUPLED RECEPTORS,  
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING GPCR PROTEINS, AND USES  
; TITLE OF INVENTION: THEREOF AS INSECTICIDAL TARGETS  
; FILE REFERENCE: CL000733CON  
; CURRENT APPLICATION NUMBER: US/10/270,333  
; CURRENT FILING DATE: 2002-10-15  
; PRIOR APPLICATION NUMBER: 60/168,677  
; PRIOR FILING DATE: 1999-12-03  
; PRIOR APPLICATION NUMBER: 60/175,691  
; PRIOR FILING DATE: 2000-01-12  
; PRIOR APPLICATION NUMBER: 60/191,638  
; PRIOR FILING DATE: 2000-03-23  
; NUMBER OF SEQ ID NOS: 198  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 192  
; LENGTH: 660  
; TYPE: PRT  
; ORGANISM: Drosophila  
US-10-270-333-192

Query Match 22.8%; Score 497.5; DB 15; Length 660;  
Best Local Similarity 29.6%; Pred. No. 5.8e-36;  
Matches 133; Conservative 77; Mismatches 159; Indels 81; Gaps 14;  
QY 20 DPFQKH---LNSTEYLAFLCG-----PRRSHEFL--PVSVVYVPIFVVG 59  
DB 62 DFLTHVAHLNLTITENSLNLSGTSNGTNAADSPVDESUTLRTALTVCYALIFVAG 121  
QY 60 VIGNVLVCLVLIHQAMKPTNYLFLSVAISDILLVLLGMPLEVEMRNYP--FLGVPV 117  
DB 122 VLGNLTCTVIGRNFMHTATNYFLNLAISDILLVSGIPOELYNLW--YPMYPTDA 179  
QY 118 GCYFTALPETVCFASILSITVSVRYVAILHPFRAKLQSTRRALRTLGTWGFSLF 177  
DB 180 MCMGSLVSEMAANATVLTITAFVRYIAICHPFRQHTMSKLSRAIKFIFAIWLAFL 239  
QY 178 SLPTNSIHKIFHPNGSLVPGSATCTVIKPMIYNFTIOVTSFLYLLPMTVISLVY 237  
DB 240 ALPQAMQFSVYVQ-----NEGYSCTMEND--FYAHVFAVSGEIFFGPGMTAICVLV 289  
QY 238 LNALRLKDKD---SLEADGNANIOPCRKSNKMLFVLVLVFAICWAPFHIDRLFFSF- 293  
DB 290 LGVVKLSRLQLSLPRTFDANGLNAQGRVIRMLVAVAVAFFLCWAFFHAORLMAVYG 349  
QY 294 -----VEENSESLAAVFNLVHVVGFFYLSSAVNPITYNLLSRFQAAFNVI----- 342  
DB 350 LNLINIGISRDAFNDFYRILDTYSGVLFSLTSCINPLLYNIMSHKFAFKITLTPQGL 409  
QY 343 --SSPHKQ--WHSQHD-----POLPPA-----QRNIFLTCEHEVELTE 376  
DB 410 ARNHHHQSOHQHNVYSALLRQNGSMRLQPCASCVNNNALEPYGSRVYVQPERC-----R 463  
QY 377 DIGQPQPCOSSMHNHSLPTALSEQMSRTN 406  
DB 464 DANHOLSQDSIRTTTTTTTTINSMAAGN 493

## RESULT 13

US-10-225-567A-473  
; Sequence 473, Application US/10225567A  
; Publication No. US20030113798A1  
; GENERAL INFORMATION:  
; APPLICANT: LifeSpan Biosciences  
; APPLICANT: Brown, Joseph P.  
; APPLICANT: Burner, Glenna C.  
; APPLICANT: Roush, Christine L.  
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS

FILE REFERENCE: 1920-4-4  
; CURRENT APPLICATION NUMBER: US/10/225,567A  
; CURRENT FILING DATE: 2001-12-19  
; PRIOR APPLICATION NUMBER: 60/257,144  
; PRIOR FILING DATE: 2000-12-19  
; NUMBER OF SEQ ID NOS: 2292  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 473  
; LENGTH: 412  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-225-567A-473  
Query Match 21.8%; Score 476; DB 15; Length 412;  
Best Local Similarity 31.8%; Pred. No. 2.7e-34;  
Matches 115; Conservative 81; Mismatches 106; Indels 60; Gaps 11;  
QY 37 CGPRRSHFFLPVSVVYVPIFVVGIVGNLVCLVLIHQAMKPTNYLFLSVAISDILLV 96  
DB 30 CSPFPLGALVPVTAVCLCLFVVGSGNVVTVMLIGRYRDMRTTNNLYLGSMAVSLLI-L 88  
QY 97 LCMPLVEYEMRNYPFLGPGVCGYKTKALFETVCASILSITVSVRYVAILHPFRAKL 156  
DB 89 LGLPDFLYRLMRSPWPVFGPLLCLSLYVGECTVATLHMTALSVERYLAICRPLRARV 148  
QY 157 QSTRRALRLIGIVMGFSVLFSLPNTSIHGKIFHYFPNGSLVPG-----SATCTVIK 208  
DB 149 LVTRRRRALIAVLAVALLSAGPFLFVGVE--QDPGISVYPGLNGTARIASSPLASSP 206  
QY 209 PMWI-----YNFTIOVTSFLYLLPMTVISV 234  
DB 207 PLWLSRAPPPSPGPEATAEAALFSSRCRPSPAQLGALRVMLWVTAYFF-LPFLCLSI 265  
QY 235 LYYLMALRLKDKDLEADGNANIOPCRKSNKMLFVLVLVFAICWAPFHIDRLFFSFV 294  
DB 266 LYGLIGRELWSSRRPLRGPAASGRGRHRTV-RVLLVVVLAFLIICWLPFHVGRIIYNT 324  
QY 295 EBMESL--AAVFNLVHVVGFFYLSSAVNPITYNLLSRFQ-AAFONVIS-----SF 345  
DB 325 ED-SRMVFSQFENIVAL---QLFVLSASINPILNLSKKYRAAAFKLLARKSRPGF 380  
QY 346 HK 347  
DB 381 HR 382

## RESULT 14

US-10-290-078-15  
; Sequence 15, Application US/10290078  
; Publication No. US20030124596A1  
; GENERAL INFORMATION:  
; APPLICANT: Carroll, Joseph A.  
; TITLE OF INVENTION: Methods and Compositions for Treating  
; TITLE OF INVENTION: Hematological Disorders Using 232, 2059, 10630, 12848, 13875,  
; TITLE OF INVENTION: 14395, 14618, 17692 or 58874  
; FILE REFERENCE: MPI2001-288P1(M)  
; CURRENT APPLICATION NUMBER: US/10/290,078  
; CURRENT FILING DATE: 2002-11-07  
; NUMBER OF SEQ ID NOS: 27  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 15  
; LENGTH: 412  
; TYPE: PRT  
; ORGANISM: Homo sapien  
US-10-290-078-15  
Query Match 21.8%; Score 476; DB 15; Length 412;  
Best Local Similarity 31.8%; Pred. No. 2.7e-34;  
Matches 115; Conservative 81; Mismatches 106; Indels 60; Gaps 11;  
QY 37 CGPRRSHFFLPVSVVYVPIFVVGIVGNLVCLVLIHQAMKPTNYLFLSVAISDILLV 96  
DB 30 CSPFPLGALVPVTAVCLCLFVVGSGNVVTVMLIGRYRDMRTTNNLYLGSMAVSLLI-L 88



**THIS PAGE BLANK (CSPTC)**



GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 22, 2003, 18:59:27 ; Search time 15.3704 Seconds  
(without alignments)  
1142.393 Million cell updates/sec

Title: us-09-609-146-4

Perfect score: 2185

Sequence: 1 MSGMEKLNASWYQOKLED.....ALSSEQMRTNYQSFHFNKT 415

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued\_Patents\_AA:\*  
1: /cgn2\_6/ptodata/1/iaa/5A\_COMB.pep.\*  
2: /cgn2\_6/ptodata/1/iaa/5B\_COMB.pep.\*  
3: /cgn2\_6/ptodata/1/iaa/6A\_COMB.pep.\*  
4: /cgn2\_6/ptodata/1/iaa/6B\_COMB.pep.\*  
5: /cgn2\_6/ptodata/1/iaa/PCRU5\_COMB.pep.\*  
6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description        |
|------------|-------|-------------|--------|----|--------------------|
| 1          | 2162  | 98.9        | 415    | 4  | US-09-545-944-2    |
| 2          | 942   | 43.1        | 403    | 4  | US-09-170-496D-114 |
| 3          | 942   | 43.1        | 403    | 4  | US-09-170-496D-224 |
| 4          | 448   | 20.5        | 353    | 3  | US-09-077-675A-3   |
| 5          | 448   | 20.5        | 353    | 4  | US-09-077-674-3    |
| 6          | 447   | 20.5        | 366    | 4  | US-09-170-496D-210 |
| 7          | 444   | 20.3        | 361    | 3  | US-09-077-675A-8   |
| 8          | 444   | 20.3        | 361    | 4  | US-09-077-674-8    |
| 9          | 444   | 20.3        | 366    | 3  | US-09-077-675A-13  |
| 10         | 444   | 20.3        | 366    | 4  | US-09-077-674-13   |
| 11         | 444   | 20.3        | 366    | 4  | US-09-170-496D-88  |
| 12         | 436.5 | 20.0        | 364    | 3  | US-09-077-675A-16  |
| 13         | 436.5 | 20.0        | 364    | 4  | US-09-077-674-16   |
| 14         | 417.5 | 19.1        | 353    | 1  | US-08-118-270-45   |
| 15         | 417.5 | 19.1        | 353    | 5  | PCT-US93-08528-45  |
| 16         | 410   | 18.8        | 416    | 3  | US-08-858-876A-4   |
| 17         | 410   | 18.8        | 416    | 3  | US-09-472-880-4    |
| 18         | 405.5 | 18.6        | 398    | 2  | US-08-288-663A-1   |
| 19         | 402   | 18.4        | 302    | 3  | US-09-077-675A-2   |
| 20         | 402   | 18.4        | 302    | 4  | US-09-077-674-2    |
| 21         | 398   | 18.2        | 302    | 3  | US-09-077-675A-7   |
| 22         | 398   | 18.2        | 302    | 4  | US-09-077-674-7    |
| 23         | 398   | 18.2        | 410    | 3  | US-08-858-663A-2   |
| 24         | 398   | 18.2        | 410    | 3  | US-09-472-880-2    |
| 25         | 397   | 18.2        | 393    | 1  | US-07-629-1041-3   |
| 26         | 389   | 17.8        | 410    | 4  | US-09-200-090-2    |
| 27         | 377.5 | 17.3        | 398    | 2  | US-08-288-663A-15  |

|    |       |      |     |   |                   |                    |
|----|-------|------|-----|---|-------------------|--------------------|
| 28 | 369   | 16.9 | 424 | 4 | US-09-341-446B-6  | Sequence 6, Appl1  |
| 29 | 366   | 16.8 | 424 | 1 | US-09-341-446B-8  | Sequence 8, Appl1  |
| 30 | 365   | 16.7 | 369 | 1 | US-07-816-283-6   | Sequence 6, Appl1  |
| 31 | 365   | 16.7 | 369 | 1 | US-08-417-103-6   | Sequence 6, Appl1  |
| 32 | 365   | 16.7 | 369 | 1 | US-08-417-103-16  | Sequence 16, Appl1 |
| 33 | 364.5 | 16.7 | 391 | 4 | US-09-200-090-4   | Sequence 4, Appl1  |
| 34 | 360   | 16.5 | 438 | 4 | US-09-761-962A-17 | Sequence 17, Appl1 |
| 35 | 358   | 16.4 | 369 | 3 | US-08-411-859-3   | Sequence 3, Appl1  |
| 36 | 358   | 16.4 | 369 | 3 | US-08-387-707-9   | Sequence 9, Appl1  |
| 37 | 358   | 16.4 | 369 | 4 | US-08-405-271A-9  | Sequence 9, Appl1  |
| 38 | 358   | 16.4 | 400 | 4 | US-09-351-198-2   | Sequence 2, Appl1  |
| 39 | 358   | 16.4 | 400 | 4 | US-09-113-426-2   | Sequence 2, Appl1  |
| 40 | 358   | 16.4 | 415 | 4 | US-08-405-271A-20 | Sequence 20, Appl1 |
| 41 | 357   | 16.3 | 398 | 4 | US-09-761-962A-29 | Sequence 29, Appl1 |
| 42 | 357   | 16.3 | 400 | 3 | US-08-188-275A-2  | Sequence 2, Appl1  |
| 43 | 356.5 | 16.3 | 319 | 3 | US-08-832-399-2   | Sequence 2, Appl1  |
| 44 | 356.5 | 16.3 | 319 | 3 | US-09-372-498-2   | Sequence 2, Appl1  |
| 45 | 356.5 | 16.3 | 352 | 4 | US-09-029-027B-2  | Sequence 2, Appl1  |

#### ALIGNMENTS

RESULT 1  
US-09-545-944-2  
; Sequence 2, Application us/09545944  
; Patent No. 6461836  
; GENERAL INFORMATION:  
; APPLICANT: AMES, ROBERT  
; APPLICANT: ELSHOUBAGY, NABIL  
; APPLICANT: MICHALOVICH, DAVID  
; APPLICANT: SARAU, HENRY  
; APPLICANT: SHABON, USMAN  
; APPLICANT: VAWTER, LISA  
; TITLE OF INVENTION: MOLECULAR CLONING OF A 7TM RECEPTOR  
; FILE REFERENCE: (AXOR34) AND SCREENING METHODS THEREOF  
; CURRENT APPLICATION NUMBER: US/09/545,944  
; CURRENT FILING DATE: 2000-04-10  
; PRIOR APPLICATION NUMBER: US 09/435,384  
; PRIOR FILING DATE: 1999-11-05  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 2  
; TYPE: PRT  
; LENGTH: 415  
; ORGANISM: HOMO SAPIENS  
US-09-545-944-2

|                       |       |                                                             |       |                   |
|-----------------------|-------|-------------------------------------------------------------|-------|-------------------|
| Query Match           | 98.9% | Score 2162;                                                 | DB 4; | Length 415;       |
| Best Local Similarity | 99.0% | Pred. No. 7.4e-195;                                         |       |                   |
| Mismatches            | 411;  | Conservative                                                | 2;    | Mismatches 2;     |
|                       |       |                                                             |       | Indels 0; Gaps 0; |
| Qy                    | 1     | MSGMEKLNASWYQOKLEDPFQKHLNSTEYLAFLCGPRKSHFPLPVSVVYVPIFVGV    | 60    |                   |
| Db                    | 1     | MSGMEKLNASWYQOKLEDPFQKHLNSTEYLAFLCGPRKSHFPLPVSVVYVPIFVGV    | 60    |                   |
| Qy                    | 61    | IGNVLVCLVILQHOAMKTPNTNYLFLSLAVSDLLVLLCMPLVEYEMRNYPFLFPGVGY  | 120   |                   |
| Db                    | 61    | IGNVLVCLVILQHOAMKTPNTNYLFLSLAVSDLLVLLCMPLVEYEMRNYPFLFPGVGY  | 120   |                   |
| Qy                    | 121   | FKTALFETVCFASITLSTTVSVRYVAILHPFRKAKLOSTRRRRLILGIWNGFSVLFSLP | 180   |                   |
| Db                    | 121   | FKTALFETVCFASITLSTTVSVRYVAILHPFRKAKLOSTRRRRLILGIWNGFSVLFSLP | 180   |                   |
| Qy                    | 181   | NTSHGKFKHFYFPGNSLVPGSATCTVIKPMIYFIQVTSFLVLLPMTVISLYLYMA     | 240   |                   |
| Db                    | 181   | NTSHGKFKHFYFPGNSLVPGSATCTVIKPMIYFIQVTSFLVLLPMTVISLYLYMA     | 240   |                   |
| Qy                    | 241   | LRLKKDSLEADEGNANIQRCKRSVKNMFLVFLVFAICWAPFHIDRLFFSFVEENSES   | 300   |                   |
| Db                    | 241   | LRLKKDSLEADEGNANIQRCKRSVKNMFLVFLVFAICWAPFHIDRLFFSFVEENSES   | 300   |                   |

QY 301 LAAVFNLVHVVGVFFYLSSAVNPITYNLLSRFQAAFNQVSSFFHKQWHSQHDQPPA 360  
D 301 LAAVFNLVHVVGVFFYLSSAVNPITYNLLSRFQAAFNQVSSFFHKQWHSQHDQPPA 360  
QY 361 ORNIFLTECHFEVLTEGIDGQFQCSQSMHNSHLPTALSSQMGRTNYQSFHNKT 415  
D 361 ORNIFLTECHFEVLTEGIDGQFQCSQSMHNSHLPTALSSQMGRTNYQSFHNKT 415

## RESULT 2

US-09-170-496D-114  
; Sequence 114, Application US/09170496D  
; Patent No. 6555339  
; GENERAL INFORMATION:  
; APPLICANT: Behan, Dominic P.  
; APPLICANT: Chalmers, Derek T.  
; APPLICANT: Liaw, Chen W.  
; TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Protein-  
; FILE REFERENCE: AREN-0040  
; CURRENT FILING DATE: 1998-10-13  
; NUMBER OF SEQ ID NOS: 294  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 114  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-170-496D-114

Query Match 43.1%; Score 942; DB 4; Length 403;  
Best Local Similarity 50.8%; Pred. No. 2.1e-80;  
Matches 180; Conservative 63; Mismatches 89; Indels 22; Gaps 6;

QY 20 DPQKHLNSTEEYLAFLCGPRSRHFFLPVSVVYVPIFVGVGNVLVCLVILQHQAMKT 78  
D 13 DP--EDLNTDEALRLKYLGPQOTELFMPICATYLLIFVVGAVGNGLTCLVILRHKAMRT 70  
QY 79 PTNYLFLSAVSDLLVLLGMPLEVEYEMRNYPFLFGPGVCYKFTALFETVCFAISLIT 138  
D 71 PTNYLFLSAVSDLLVLLGMPLEVEYEMRNYPFLFGPGVCYKFTALFETVCFAISLIT 138  
QY 139 TVSVRYVAILHPFRKALQSTRRLRIILGVGFSVLFSLPNTSIHGKIFHYFPNGSLV 198  
D 131 ALSYRYVAVVHPLOARSMTVAHVRRVGLGAVNGLAMLSLNTSLHGIRQLHVPGRGPV 190  
QY 199 PGSATCTVIKPMIYNIQVTSFLYLLPMTVISVLYLMLRLKDKSLEADGN--- 255  
D 191 PDSAVCMVLRPRALYNMVTOTALLFFCLPMAIMSVLYLLGLRLRRERLLLMQEAARG 250  
QY 256 ---ANTQRPC-----RKSNKMLFVLVLAICWAPPHIDRLFFSFVEEWSLA 304  
D 251 SAAARSRYTCRLOQHDRGRQVTKMLFVLVVGICWAPPHADRVVMVSVQWTDGLHLA 310  
QY 305 FNLVHVVGVFFYLSSAVNPITYNLLSRFQAAFNQV---SSFH--KOWHSH 353  
D 311 FQHVHVISGFFYLGSANPNVLYSLMSRFRFTEQALCLGACCHRLRPRHSH 364

## RESULT 3

US-09-170-496D-224  
; Sequence 224, Application US/09170496D  
; Patent No. 6555339  
; GENERAL INFORMATION:  
; APPLICANT: Behan, Dominic P.  
; APPLICANT: Chalmers, Derek T.  
; APPLICANT: Liaw, Chen W.  
; TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Protein-  
; FILE REFERENCE: AREN-0040  
; CURRENT FILING DATE: 1998-10-13  
; NUMBER OF SEQ ID NOS: 294

; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 224  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-170-496D-224

Query Match 43.1%; Score 942; DB 4; Length 403;  
Best Local Similarity 50.8%; Pred. No. 2.1e-80;  
Matches 180; Conservative 63; Mismatches 89; Indels 22; Gaps 6;

QY 20 DPQKHLNSTEEYLAFLCGPRSRHFFLPVSVVYVPIFVGVGNVLVCLVILQHQAMKT 78  
D 13 DP--EDLNTDEALRLKYLGPQOTELFMPICATYLLIFVVGAVGNGLTCLVILRHKAMRT 70  
QY 79 PTNYLFLSAVSDLLVLLGMPLEVEYEMRNYPFLFGPGVCYKFTALFETVCFAISLIT 138  
D 71 PTNYLFLSAVSDLLVLLGMPLEVEYEMRNYPFLFGPGVCYKFTALFETVCFAISLIT 138  
QY 139 TVSVRYVAILHPFRKALQSTRRLRIILGVGFSVLFSLPNTSIHGKIFHYFPNGSLV 198  
D 131 ALSYRYVAVVHPLOARSMTVAHVRRVGLGAVNGLAMLSLNTSLHGIRQLHVPGRGPV 190  
QY 199 PGSATCTVIKPMIYNIQVTSFLYLLPMTVISVLYLMLRLKDKSLEADGN--- 255  
D 191 PDSAVCMVLRPRALYNMVTOTALLFFCLPMAIMSVLYLLGLRLRRERLLLMQEAARG 250  
QY 256 ---ANTQRPC-----RKSNKMLFVLVLAICWAPPHIDRLFFSFVEEWSLA 304  
D 251 SAAARSRYTCRLOQHDRGRQVTKMLFVLVVGICWAPPHADRVVMVSVQWTDGLHLA 310  
QY 305 FNLVHVVGVFFYLSSAVNPITYNLLSRFQAAFNQV---SSFH--KOWHSH 353  
D 311 FQHVHVISGFFYLGSANPNVLYSLMSRFRFTEQALCLGACCHRLRPRHSH 364

## RESULT 4

US-09-077-675A-3  
; Sequence 3, Application US/09077675A  
; Patent No. 6242199  
; GENERAL INFORMATION:  
; APPLICANT: Pal, Lee-Yuh  
; APPLICANT: Feighner, Scott C.  
; APPLICANT: Howard, Andrew D.  
; APPLICANT: Pong, Sheng-Shung  
; APPLICANT: Van Der Ploeg, Leonardus H.T.  
; TITLE OF INVENTION: RECEPTOR ASSAY  
; NUMBER OF SEQUENCES: 16  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Merck & Co., Inc.  
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.  
; CITY: Rahway  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 07065-0900  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/077,675A  
; FILING DATE: 3-JUN-1998  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Cocuzzo, Anna L.  
; REGISTRATION NUMBER: 42,452  
; REFERENCE/DOCKET NUMBER: 19590P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 732-594-1273

TELEFAX: 732-594-4720  
TELEX:  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 353 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-077-675A-3

Query Match 20.5%; Score 448; DB 3; Length 353;  
Best Local Similarity 34.3%; Pred. No. 3.9e-34;  
Matches 104; Conservative 68; Mismatches 103; Indels 28; Gaps 7;

QY 48 VSVVVPFVGVGIVGNVLCVILVILQHQAMKPTNYLFLSLAVSDLLVLLGMPLEVYEMW 107  
DB 33 VTATCVLFFVGVGIAGNLLTMLVVSFRFEMRTTTLNLSSMAFSOLLIFLC-MPLDLFLW 91  
QY 108 RNYPLEFGPGVCYEKFTALFETVCFASILSIITVSVERVAILHPFRAKLOSTRRLRL 167  
DB 92 QYRPNLGNLCKLFQFVSECTYATVLTALSVERYFAICFPLRAKVVTGKRVKLI 151  
QY 168 GIVMGFVLSLPNTSINGIKHFYFPNGS-----LVPGSATCTVIKPMWIYNF 215  
DB 152 LVIWAVAFCSAGPIFLVGVE--HDNGTDPDTNECRATEFAVRSGLLTVM--VWV--- 203  
QY 216 IIQVTSFLYLLPMTVLSVLYLMLAKLKKDSLEADEGNANIOPCRKSNKMLFVLVL 275  
DB 204 -----SSVFFFLPVFCITVLYSLIGRKLWRKRKGEAAVG--SSLRDQNHKQTVKMLAVVVF 257  
QY 276 VFAICWAPFHIDRLFFS-FVEWSESLAAVFNLVHVYGVFFYLLSSAVNPITYNLLSRF 334  
DB 258 AFILCWLPFHVGRYLFKSLEPGSVETAIQISQYCNLVSVFLYLSAAILNLYINMSKY 317  
QY 335 QAA 337  
DB 318 RVA 320

RESULT 5  
US-09-077-674-3  
Sequence 3, Application US/09077674  
Patent No. 6531314  
GENERAL INFORMATION:  
APPLICANT: Arena, Joseph P.  
APPLICANT: Cully, Doris F.  
APPLICANT: Feighner, Scott D.  
APPLICANT: Howard, Andrew D.  
APPLICANT: Liberator, Paul A.  
APPLICANT: Schaeffer, James M.  
APPLICANT: Van Der Ploeg, Leonardus  
TITLE OF INVENTION: GROWTH HORMONE SECRETAGOGUE RECEPTOR FAMILY  
NUMBER OF SEQUENCES: 16  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Merck & Co., Inc.  
STREET: P.O. Box 2000, 126 E. Lincoln Ave.  
CITY: Rahway  
STATE: NJ  
COUNTRY: USA  
ZIP: 07065-0900  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/077,674  
FILING DATE: 3-JUN-1998  
CLASSIFICATION: 536  
PRIOR APPLICATION NUMBER:  
FILING DATE:

ATTORNEY/AGENT INFORMATION:  
NAME: Cocuzzo, Anna L.  
REGISTRATION NUMBER: 42,452  
REFERENCE/DOCKET NUMBER: 19589P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 732-594-1273  
TELEFAX: 732-594-4720  
TELEX:  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 353 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-077-674-3

Query Match 20.5%; Score 448; DB 4; Length 353;  
Best Local Similarity 34.3%; Pred. No. 3.9e-34;  
Matches 104; Conservative 68; Mismatches 103; Indels 28; Gaps 7;

QY 48 VSVVVPFVGVGIVGNVLCVILVILQHQAMKPTNYLFLSLAVSDLLVLLGMPLEVYEMW 107  
DB 33 VTATCVLFFVGVGIAGNLLTMLVVSFRFEMRTTTLNLSSMAFSOLLIFLC-MPLDLFLW 91  
QY 108 RNYPLEFGPGVCYEKFTALFETVCFASILSIITVSVERVAILHPFRAKLOSTRRLRL 167  
DB 92 QYRPNLGNLCKLFQFVSECTYATVLTALSVERYFAICFPLRAKVVTGKRVKLI 151  
QY 168 GIVMGFVLSLPNTSINGIKHFYFPNGS-----LVPGSATCTVIKPMWIYNF 215  
DB 152 LVIWAVAFCSAGPIFLVGVE--HDNGTDPDTNECRATEFAVRSGLLTVM--VWV--- 203  
QY 216 IIQVTSFLYLLPMTVLSVLYLMLAKLKKDSLEADEGNANIOPCRKSNKMLFVLVL 275  
DB 204 -----SSVFFFLPVFCITVLYSLIGRKLWRKRKGEAAVG--SSLRDQNHKQTVKMLAVVVF 257  
QY 276 VFAICWAPFHIDRLFFS-FVEWSESLAAVFNLVHVYGVFFYLLSSAVNPITYNLLSRF 334  
DB 258 AFILCWLPFHVGRYLFKSLEPGSVETAIQISQYCNLVSVFLYLSAAILNLYINMSKY 317  
QY 335 QAA 337  
DB 318 RVA 320

RESULT 6  
US-09-170-496D-210  
Sequence 210, Application US/09170496D  
Patent No. 6555339  
GENERAL INFORMATION:  
APPLICANT: Behan, Dominic P.  
APPLICANT: Chalmers, Derek T.  
APPLICANT: Litaw, Chen W.  
TITLE OF INVENTION: No. 6555339--Endogenous, Constitutively Activated Human G Prote  
FILE REFERENCE: AREN-0040  
CURRENT APPLICATION NUMBER: US/09/170,496D  
CURRENT FILING DATE: 1998-10-13  
NUMBER OF SEQ ID NOS: 294  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 210  
LENGTH: 366  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-170-496D-210

Query Match 20.5%; Score 447; DB 4; Length 366;  
Best Local Similarity 34.0%; Pred. No. 5.1e-34;  
Matches 103; Conservative 68; Mismatches 104; Indels 28; Gaps 7;

QY 48 VSVVVPFVGVGIVGNVLCVILVILQHQAMKPTNYLFLSLAVSDLLVLLGMPLEVYEMW 107  
DB 33 VTATCVLFFVGVGIAGNLLTMLVVSFRFEMRTTTLNLSSMAFSOLLIFLC-MPLDLFLW 91

Db 46 VTATCVAFVGVGIAGNLLTMLVVSFRRLRTTNTNLYLSMAFSDLLIFLC-MPLDLVRLW 104  
QY 108 RNYPLFGVGVGYKFTALFETVCFASIIITTSVVERVYAILHPFRKQSTRRALRL 167  
Db 105 QYRPNFGDLLCKLQFVSESTYATVLTITALSVERFAICFPLRAKVVVTKGRVKLVI 164  
QY 168 GIWGFVSFLSPNTSIHGIKHPYFNGS-----LVPGSATCTVIKPMIYNF 215  
Db 165 FVIMAVAFCSAGPIFVLGVGEHE--NGTDPWDTNECRTEFAVRSGLLTVN--VWV--- 216  
QY 216 IIQVTSFYLPLPMVVISVLYLMLRLKKDLKSLADEGNANIQRCKRSVNMKLFVLVL 275  
Db 217 -----SSIFFFLPVCLTVLYSLIGRKLWRRRGDAVVG-ASLRQNHKQTKMLAVVVF 270  
QY 276 VFAICWAPHIDRLFFS-FVEWSESALAAVFNLVHVSGVFFYLSAVNPIIYNLLSRF 334  
Db 271 AFILCWLPVHVGRLYFSKSFEPGSLIAIOISQYCNLVSVFLYLSAAINPILYNIMSKKY 330  
QY 335 QAA 337  
Db 331 RVA 333

RESULT 7  
US-09-077-675A-8  
; Sequence 8, Application US/09077675A  
; Patent No. 6242199  
; GENERAL INFORMATION:  
; APPLICANT: Pai, Lee-Yuh  
; APPLICANT: Feighner, Scott C.  
; APPLICANT: Howard, Andrew D.  
; APPLICANT: Pong, Sheng-Shung  
; APPLICANT: Van Der Ploeg, Leonardus H.T.  
; TITLE OF INVENTION: RECEPTOR ASSAY  
; NUMBER OF SEQUENCES: 16  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Merck & Co., Inc.  
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.  
; CITY: Rahway  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 07065-0900  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/077,675A  
; FILING DATE: 3-JUN-1998  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Cocuzzo, Anna L.  
; REGISTRATION NUMBER: 42,452  
; REFERENCE/DOCKET NUMBER: 19590P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 732-594-1273  
; TELEFAX: 732-594-4720  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 361 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-077-675A-8

Query Match 20.3%; Score 444; DB 3; Length 361;  
Best Local Similarity 34.0%; Pred. No. 9.6e-34;

Matches 103; Conservative 68; Mismatches 104; Indels 28; Gaps 7;  
QY 48 VSVVVPFVGVGIGNVLVCLVILQOAMKTPNTNYLFSLAYSDLLVLLGMPLEVYEMW 107  
Db 41 VTATCVAFVGVGIAGNLLTMLVVSFRRLRTTNTNLYLSMAFSDLLIFLC-MPLDLVRLW 99  
QY 108 RNYPLFGVGVGYKFTALFETVCFASIIITTSVVERVYAILHPFRKQSTRRALRL 167  
Db 100 QYRPNFGDLLCKLQFVSESTYATVLTITALSVERFAICFPLRAKVVVTKGRVKLVI 159  
QY 168 GIWGFVSFLSPNTSIHGIKHPYFNGS-----LVPGSATCTVIKPMIYNF 215  
Db 160 FVIMAVAFCSAGPIFVLGVGEHE--NGTDPWDTNECRTEFAVRSGLLTVN--VWV--- 211  
QY 216 IIQVTSFYLPLPMVVISVLYLMLRLKKDLKSLADEGNANIQRCKRSVNMKLFVLVL 275  
Db 212 -----SSIFFFLPVCLTVLYSLIGRKLWRRRGDAVVG-ASLRQNHKQTKMLAVVVF 265  
QY 276 VFAICWAPHIDRLFFS-FVEWSESALAAVFNLVHVSGVFFYLSAVNPIIYNLLSRF 334  
Db 266 AFILCWLPVHVGRLYFSKSFEPGSLIAIOISQYCNLVSVFLYLSAAINPILYNIMSKKY 325  
QY 335 QAA 337  
Db 326 RVA 328

RESULT 8  
US-09-077-674-8  
; Sequence 8, Application US/09077674  
; Patent No. 6531314  
; GENERAL INFORMATION:  
; APPLICANT: Arena, Joseph P.  
; APPLICANT: Cully, Doris F.  
; APPLICANT: Feighner, Scott D.  
; APPLICANT: Howard, Andrew D.  
; APPLICANT: Liberator, Paul A.  
; APPLICANT: Schaeffer, James M.  
; APPLICANT: Van Der Ploeg, Leonardus  
; TITLE OF INVENTION: GROWTH HORMONE SECRETAGOGUE RECEPTOR FAMILY  
; NUMBER OF SEQUENCES: 16  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Merck & Co., Inc.  
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.  
; CITY: Rahway  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 07065-0900  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/077,674  
; FILING DATE: 3-JUN-1998  
; CLASSIFICATION: 536  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Cocuzzo, Anna L.  
; REGISTRATION NUMBER: 42,452  
; REFERENCE/DOCKET NUMBER: 19589P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 732-594-1273  
; TELEFAX: 732-594-4720  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 361 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single



REFERENCE/DOCKET NUMBER: 19589P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 732-594-1273  
TELEFAX: 732-594-4720  
TELEX:  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 366 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-077-674-13

Query Match 20.3%; Score 444; DB 4; Length 366;

Best Local Similarity 34.0%; Pred. No. 9.8e-34;  
Matches 103; Conservative 68; Mismatches 104; Indels 28; Gaps 7;

QY 48 VSVVYVPIFVGVGIVGNLVCLVILQHQAMKTPNTNYLFSVSLAVSDLLVLLGMPLEYEMW 107  
D6 46 VTATCVAFVGVGIAGNLLTMLVVSFRRELRTTNTLYLSSMAFSDLLIFLC-NPLDLVRLW 104  
QY 108 RNYPLFGVPGVCYFKTALFETVCFASILSITTVSVERYVAILHPFRALQSTRRALRL 167  
D6 105 QYRPNFGLLCKLFQFVSECTYATVLTITALSVERYFAICFPLRAKVVVTKGRYKLV 164  
QY 168 GIVMGFSVFLSLPNTSIHGKIKHYFPNGS-----LVPGSATCTVIKPMIYNF 215  
D6 165 FWIWAFAFCSAGPIFVLGVGHE---NGTDPWDTNECRTEFAVRSGLLTVM--VWV--- 216  
QY 216 IIQVTSFLYLLPMTVISLYLMALRLKKDSLEADGNANIQRCKSVNKMFLVVL 275  
D6 217 -----SSIEFFLPVCLTVLYSLIGRKLWRRRGDAVVG-ASLRDQNHKQTVKMLAVVVF 270  
QY 276 VFAICWAPHIDRLFFS-FVEWSESAAVFNLVHVVSGVFFYLSAVNPIIYNLLSRF 334  
D6 271 AFLCWLPHVGVRYLFSKFEPSLEIAQISQVCLNVFLVFLYLSAAINPILYNIMSKY 330  
QY 335 QAA 337  
D6 331 RVA 333

## RESULT 11

US-09-170-496D-88  
Sequence 88, Application US/09170496D  
Patent No. 6555339  
GENERAL INFORMATION:  
APPLICANT: Behan, Dominic P.  
APPLICANT: Chalmers, Derek T.  
APPLICANT: Liaw, Chen W.  
TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Protein-  
FILE REFERENCE: AREN-0040  
CURRENT APPLICATION NUMBER: US/09/170,496D  
CURRENT FILING DATE: 1998-10-13  
NUMBER OF SEQ ID NOS: 294  
SOFTWARE: Patent in version 3.1  
SEQ ID NO 88  
LENGTH: 366  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-170-496D-88

Query Match 20.3%; Score 444; DB 4; Length 366;

Best Local Similarity 34.0%; Pred. No. 9.8e-34;  
Matches 103; Conservative 68; Mismatches 104; Indels 28; Gaps 7;

QY 48 VSVVYVPIFVGVGIVGNLVCLVILQHQAMKTPNTNYLFSVSLAVSDLLVLLGMPLEYEMW 107  
D6 46 VTATCVAFVGVGIAGNLLTMLVVSFRRELRTTNTLYLSSMAFSDLLIFLC-NPLDLVRLW 104  
QY 108 RNYPLFGVPGVCYFKTALFETVCFASILSITTVSVERYVAILHPFRALQSTRRALRL 167

Db 105 QYRPNFGLLCKLFQFVSECTYATVLTITALSVERYFAICFPLRAKVVVTKGRYKLV 164  
QY 168 GIVMGFSVFLSLPNTSIHGKIKHYFPNGS-----LVPGSATCTVIKPMIYNF 215  
D6 165 FWIWAFAFCSAGPIFVLGVGHE---NGTDPWDTNECRTEFAVRSGLLTVM--VWV--- 216  
QY 216 IIQVTSFLYLLPMTVISLYLMALRLKKDSLEADGNANIQRCKSVNKMFLVVL 275  
D6 217 -----SSIEFFLPVCLTVLYSLIGRKLWRRRGDAVVG-ASLRDQNHKQTVKMLAVVVF 270  
QY 276 VFAICWAPHIDRLFFS-FVEWSESAAVFNLVHVVSGVFFYLSAVNPIIYNLLSRF 334  
D6 271 AFLCWLPHVGVRYLFSKFEPSLEIAQISQVCLNVFLVFLYLSAAINPILYNIMSKY 330  
QY 335 QAA 337  
D6 331 RVA 333

## RESULT 12

US-09-077-675A-16  
Sequence 16, Application US/09077675A  
Patent No. 6242199  
GENERAL INFORMATION:  
APPLICANT: Pai, Lee-Yuh  
APPLICANT: Feighner, Scott C.  
APPLICANT: Howard, Andrew D.  
APPLICANT: Pong, Sheng-Shung  
APPLICANT: Van Der Ploeg, Leonardus H.T.  
TITLE OF INVENTION: RECEPTOR ASSAY  
NUMBER OF SEQUENCES: 16  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Merck & Co., Inc.  
STREET: P.O. Box 2000, 126 E. Lincoln Ave.  
CITY: Rahway  
STATE: NJ  
COUNTRY: USA  
ZIP: 07065-0900  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/077,675A  
FILING DATE: 3-JUN-1998  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Cocuzzo, Anna L.  
REGISTRATION NUMBER: 42,452  
REFERENCE/DOCKET NUMBER: 19590P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 732-594-1273  
TELEFAX: 732-594-4720  
TELEX:  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 364 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-077-675A-16

Query Match 20.0%; Score 436.5; DB 3; Length 364;  
Best Local Similarity 34.0%; Pred. No. 4.9e-33;  
Matches 103; Conservative 68; Mismatches 103; Indels 29; Gaps 8;  
QY 48 VSVVYVPIFVGVGIVGNLVCLVILQHQAMKTPNTNYLFSVSLAVSDLLVLLGMPLEYEMW 107

Db 45 VTATCVAFVVGISGNLLTMLVVSFRFELRTTNTNLYLSSMAFSDLLIFLC-MPLDLVRLW 103  
Qy 108 RNYFPLGPGVCCFKETALFETVCFASILSTTTSVERYVAILHPFRAKLOSTRRLRIL 167  
Db 104 QYRPNWFGDLDLCKLFQVSESCYATVLTITALSVERYFAICFPPLRAKVVTYTKGRVKLVI 163  
Qy 168 GIWVGFSVLSLNTSIHGKIFHYFPNGS-----LVPGSATCTVIKPMWYNE 215  
Db 164 LVIWAVAFCSAGPIFVLGVGEHE---NGTDPRTNECRATEFAVRSGLLTVM--VWV--- 215  
Qy 216 IIQVTSFLYLLPMTVTSVLYYLMALRKKDKSLEADEGNANTORPCRSVKNKMLFVLYL 275  
Db 216 -----SSVFFFLPVFCLTVLSLIGRKLWRRRG--DAAVG--ASLRDQNHKQTVKMLAVVVF 268  
Qy 276 VFAICWAPFHIDRLFFS-FVEEWSSESLAAVFNLVHVYGVFFYLLSSAVNPILYLLSRF 334  
Db 269 AFILCWLPFHVGRYLFKSPGSLTAQISOYCNLVSVFLYLSAAINPILYNIMSKY 328  
Qy 335 QAA 337  
Db 329 RVA 331

## RESULT 13

US-09-077-674-16  
; Sequence 16, Application US/09077674  
; Patent No. 6531314  
; GENERAL INFORMATION:  
; APPLICANT: Arena, Joseph P.  
; APPLICANT: Cully, Doris F.  
; APPLICANT: Feighner, Scott D.  
; APPLICANT: Howard, Andrew D.  
; APPLICANT: Liberator, Paul A.  
; APPLICANT: Schaeffer, James M.  
; APPLICANT: Van Der Ploeg, Leonardus  
; TITLE OF INVENTION: GROWTH HORMONE SECRETAGOGUE RECEPTOR FAMILY  
; NUMBER OF SEQUENCES: 16  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Merck & Co., Inc.  
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.  
; CITY: Rahway  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 07065-0900  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/077,674  
; FILING DATE: 3-JUN-1998  
; CLASSIFICATION: 536  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Cocuzzo, Anna L.  
; REGISTRATION NUMBER: 42,452  
; REFERENCE/DOCKET NUMBER: 19589p  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 732-594-1273  
; TELEFAX: 732-594-4720  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 16:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 364 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-077-674-16

Query Match 20.0% Score 436.5; DB 4; Length 364;  
Best Local Similarity 34.0% Pred. No. 4.9e-33;  
Matches 103; Conservative 68; Mismatches 103; Indels 29; Gaps 8;  
Qy 48 VSVYVPIFYVGVIGNVLCVILQHOAMKPTNYYLFSVLAVSDLLVLLGMPLEVYEMW 107  
Db 45 VTATCVAFVVGISGNLLTMLVVSFRFELRTTNTNLYLSSMAFSDLLIFLC-MPLDLVRLW 103  
Qy 108 RNYFPLGPGVCCFKETALFETVCFASILSTTTSVERYVAILHPFRAKLOSTRRLRIL 167  
Db 104 QYRPNWFGDLDLCKLFQVSESCYATVLTITALSVERYFAICFPPLRAKVVTYTKGRVKLVI 163  
Qy 168 GIWVGFSVLSLNTSIHGKIFHYFPNGS-----LVPGSATCTVIKPMWYNE 215  
Db 164 LVIWAVAFCSAGPIFVLGVGEHE---NGTDPRTNECRATEFAVRSGLLTVM--VWV--- 215  
Qy 216 IIQVTSFLYLLPMTVTSVLYYLMALRKKDKSLEADEGNANTORPCRSVKNKMLFVLYL 275  
Db 216 -----SSVFFFLPVFCLTVLSLIGRKLWRRRG--DAAVG--ASLRDQNHKQTVKMLAVVVF 268  
Qy 276 VFAICWAPFHIDRLFFS-FVEEWSSESLAAVFNLVHVYGVFFYLLSSAVNPILYLLSRF 334  
Db 269 AFILCWLPFHVGRYLFKSPGSLTAQISOYCNLVSVFLYLSAAINPILYNIMSKY 328  
Qy 335 QAA 337  
Db 329 RVA 331

## RESULT 14

US-08-118-370-45  
; Sequence 45, Application US/08118270  
; Patent No. 5508384  
; GENERAL INFORMATION:  
; APPLICANT: Murphy, Randall B.  
; APPLICANT: Schuster, David I.  
; TITLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN  
; TITLE OF INVENTION: RECEPTORS, AND COMPOSITIONS AND METHODS THEREOF  
; NUMBER OF SEQUENCES: 348  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: BROWDY AND NEIMARK  
; STREET: 419 Seventh Street, N.W., Suite 300  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20004  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/118,270  
; FILING DATE: 09-SEP-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/943,236  
; FILING DATE: 10-SEP-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Townsend, Kevin G.  
; REGISTRATION NUMBER: 34,033  
; REFERENCE/DOCKET NUMBER: MURPHY-2A  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-628-5197  
; TELEFAX: 202-737-3528  
; TELEX: 248633  
; INFORMATION FOR SEQ ID NO: 45:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 353 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide





GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 22, 2003, 18:59:27 ; Search time 14.6296 seconds  
(without alignments)  
1142.393 Million cell updates/sec

Title: us-09-609-146-25

Perfect score: 2076

Sequence: 1 MGKLENASWIHDLPLMKYLS.....GOSSIHNTLTTAPCAGEVP 395

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued\_Patents\_AA.\*  
1: /cgn2\_6/ptodata/1/1aa/5A\_COMB.pcp.\*  
2: /cgn2\_6/ptodata/1/1aa/5B\_COMB.pcp.\*  
3: /cgn2\_6/ptodata/1/1aa/6A\_COMB.pcp.\*  
4: /cgn2\_6/ptodata/1/1aa/6B\_COMB.pcp.\*  
5: /cgn2\_6/ptodata/1/1aa/PCTUS\_COMB.pcp.\*  
6: /cgn2\_6/ptodata/1/1aa/backfiles1.pcp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

| Result No. | Score  | Query Match | Length | DB ID | Description        |
|------------|--------|-------------|--------|-------|--------------------|
| 1          | 1640.5 | 79.0        | 415    | 4     | US-09-545-944-2    |
| 2          | 952.5  | 45.9        | 403    | 4     | US-09-170-4960-114 |
| 3          | 946.5  | 45.6        | 403    | 4     | US-09-170-4960-224 |
| 4          | 465.5  | 22.4        | 364    | 3     | US-09-077-675A-16  |
| 5          | 465.5  | 22.4        | 364    | 4     | US-09-077-675A-16  |
| 6          | 465    | 22.4        | 353    | 3     | US-09-077-675A-3   |
| 7          | 465    | 22.4        | 353    | 4     | US-09-077-675A-3   |
| 8          | 463.5  | 22.3        | 361    | 3     | US-09-077-675A-8   |
| 9          | 463.5  | 22.3        | 361    | 4     | US-09-077-675A-8   |
| 10         | 463.5  | 22.3        | 366    | 3     | US-09-077-675A-13  |
| 11         | 463.5  | 22.3        | 366    | 4     | US-09-077-675A-13  |
| 12         | 463.5  | 22.3        | 366    | 4     | US-09-170-4960-88  |
| 13         | 462.5  | 22.3        | 366    | 4     | US-09-170-4960-210 |
| 14         | 437    | 21.1        | 410    | 3     | US-08-858-876A-2   |
| 15         | 437    | 21.1        | 410    | 3     | US-09-472-880-2    |
| 16         | 433.5  | 20.9        | 353    | 1     | US-08-118-270-45   |
| 17         | 433.5  | 20.9        | 353    | 5     | PCT-US93-08528-45  |
| 18         | 430.5  | 20.7        | 416    | 3     | US-08-858-876A-4   |
| 19         | 430.5  | 20.7        | 416    | 3     | US-09-472-880-4    |
| 20         | 427    | 20.6        | 410    | 4     | US-09-200-090-2    |
| 21         | 423    | 20.4        | 302    | 3     | US-09-077-675A-2   |
| 22         | 423    | 20.4        | 302    | 4     | US-09-077-675A-2   |
| 23         | 421.5  | 20.3        | 302    | 3     | US-09-077-675A-7   |
| 24         | 421.5  | 20.3        | 302    | 4     | US-09-077-675A-7   |
| 25         | 416    | 20.0        | 398    | 2     | US-08-288-663A-1   |
| 26         | 412    | 19.8        | 393    | 1     | US-07-629-1041-3   |
| 27         | 401.5  | 19.3        | 391    | 4     | US-09-200-090-4    |

|    |       |      |     |   |                   |                   |
|----|-------|------|-----|---|-------------------|-------------------|
| 28 | 400.5 | 19.3 | 400 | 3 | US-08-889-108-8   | Sequence 8, Appl  |
| 29 | 400.5 | 19.3 | 400 | 5 | PCT-US94-10358-8  | Sequence 8, Appl  |
| 30 | 399.5 | 19.2 | 384 | 2 | US-08-103-170-10  | Sequence 10, Appl |
| 31 | 396.5 | 19.1 | 400 | 4 | US-09-351-198-2   | Sequence 2, Appl  |
| 32 | 396.5 | 19.1 | 400 | 4 | US-09-113-426-2   | Sequence 2, Appl  |
| 33 | 396.5 | 19.1 | 415 | 4 | US-08-405-271A-20 | Sequence 20, Appl |
| 34 | 395.5 | 19.1 | 400 | 3 | US-08-188-275A-2  | Sequence 2, Appl  |
| 35 | 392   | 18.9 | 341 | 1 | US-08-118-270-48  | Sequence 48, Appl |
| 36 | 392   | 18.9 | 341 | 5 | PCT-US93-08528-48 | Sequence 48, Appl |
| 37 | 389.5 | 18.8 | 319 | 3 | US-08-832-399-2   | Sequence 2, Appl  |
| 38 | 389.5 | 18.8 | 319 | 3 | US-09-372-498-2   | Sequence 2, Appl  |
| 39 | 388.5 | 18.7 | 398 | 2 | US-08-288-663A-15 | Sequence 15, Appl |
| 40 | 387   | 18.6 | 390 | 4 | US-09-761-962A-25 | Sequence 25, Appl |
| 41 | 387   | 18.6 | 391 | 4 | US-09-761-962A-26 | Sequence 26, Appl |
| 42 | 387   | 18.6 | 392 | 4 | US-09-761-962A-19 | Sequence 19, Appl |
| 43 | 387   | 18.6 | 398 | 4 | US-09-761-962A-29 | Sequence 29, Appl |
| 44 | 387   | 18.6 | 401 | 4 | US-09-761-962A-20 | Sequence 20, Appl |
| 45 | 387   | 18.6 | 409 | 4 | US-09-761-962A-27 | Sequence 27, Appl |

## ALIGNMENTS

### RESULT\_1

US-09-545-944-2

; Sequence 2, Application US/09545944

; Patent No. 6461836

; GENERAL INFORMATION:

; APPLICANT: AMES, ROBERT

; APPLICANT: ELSHOURBAGY, NABIL

; APPLICANT: MICHALOVICH, DAVID

; APPLICANT: SARAU, HENRY

; APPLICANT: SHABON, USMAN

; APPLICANT: VAWTER, LISA

; TITLE OF INVENTION: MOLECULAR CLONING OF A 7TM RECEPTOR

; TITLE OF INVENTION: (AXOR34) AND SCREENING METHODS THEREOF

; FILE REFERENCE: GP70657-1

; CURRENT APPLICATION NUMBER: US/09/545,944

; CURRENT FILING DATE: 2000-04-10

; PRIOR APPLICATION NUMBER: US 09/435,384

; PRIOR FILING DATE: 1999-11-05

; NUMBER OF SEQ ID NOS: 5

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 2

; LENGTH: 415

; TYPE: PRT

; ORGANISM: HOMO SAPIENS

; US-09-545-944-2

Query Match 79.0%; Score 1640.5; DB 4; Length 415;  
Best Local Similarity 79.1%; Pred. No. 2.6e-127;  
Matches 311; Conservative 35; Mismatches 42; Indels 5; Gaps 1;

|    |     |                                                              |     |
|----|-----|--------------------------------------------------------------|-----|
| Qy | 1   | MGKLENASWIH-----DPLMKYLNSTEEYLAHLCGPKRSDLSLPVSAYALIFLVGMGN   | 55  |
| Db | 4   | MEKLNASWIYQOKLEDPFQKHLNSTEYLAFLCGRSRSHFFLPVSVVYVPIFVGVGN     | 63  |
| Qy | 56  | LLVCMVIVRQTLKTPNTNYFLSLAVSDLLVLLGMPLEIYEMHNNYFFLPGVCYFKT     | 115 |
| Db | 64  | VLVCLVLQHQAMKTPNTNYFLSLAVSDLLVLLGMPLEIYEMHNNYFFLPGVCYFKT     | 123 |
| Qy | 116 | ALFETVCFASLTLSVTVSVRYVAIVHPFRKLESTRRRRLRILSLVMSFSVPSLPNTS    | 175 |
| Db | 124 | ALFETVCFASLTLSVTVSVRYVAIVHPFRKLESTRRRRLRILSLVMSFSVPSLPNTS    | 183 |
| Qy | 176 | IHGKIFQHFPGNSVPGSATCTVTKPMVYNLIQTATSEFLYIPMTLISVLYLMLGRL     | 235 |
| Db | 184 | IHGKIFHYFPGNSLVPGSATCTVTIKPMIYNLIQTATSEFLYIPMTLISVLYLMLRL    | 243 |
| Qy | 236 | KRDESLBANKVAVNIHRPSRKSVTKMLFVLVLFVAICWTPPHVDRLFFSFVEEWTESLAA | 295 |
| Db | 244 | KKDKSLEADGNANIQRCKRSVKNMLFVLVLFVAICWTPPHVDRLFFSFVEEWTESLAA   | 303 |

|    |     |                                |                                  |     |
|----|-----|--------------------------------|----------------------------------|-----|
| Qy | 296 | VFNLLTHVSVGVFFYLLSSAVNNII      | NLLSRFRANVNSPTCKWCHRHRRPOGPPAQKI | 355 |
| Db | 304 | VFNLVHVVGVGLFYLLSSAVNNII       | NLLSRFRANVNSPTCKWCHRHRRPOGPPAQRN | 363 |
| Qy | 356 | IFLTCHVALVELTADAGPQFGQSSIHNTLT | TA 388                           |     |
| Db | 364 | IFLTCHFVELTEDIQPFQLCQSSVHNSH   | LPTA 396                         |     |

## RESULT 2

US-09-170-496D-114  
; Sequence 114, Application US/09170496D

```

/ sequence id: Application US/09/1704950D
/ Patent No. 655339
/ GENERAL INFORMATION:
/ APPLICANT: Behan, Dominic P.
/ APPLICANT: Chalmers, Derek T.
/ APPLICANT: Liaw, Chen W.
/ TITLE OF INVENTION: No. 655339-Endogenous
/ TITLE OF INVENTION: Receptors
/ FILE REFERENCE: AREN-0040
/ CURRENT APPLICATION NUMBER: US/09/170,496D
/ CURRENT FILING DATE: 1998-10-13
/ NUMBER OF SEQ ID NOS: 294
/ SOFTWARE: PatentIn version 3.1

```

Query Match 45.9%; Score 952.5; DB 4; Length 403;  
Best Local Similarity 47.9%; Pred. NO. 9e-71;  
Matches 183; Conservative 60; Mismatches 94; Indels 45

### RESULT 3

RESULT 3  
US-09-170-496D-224  
: Sequence 224. Application US/09170496D

```

, sequence 244, application US/091704950D
, Patent No. 6555339
, GENERAL INFORMATION:
, APPLICANT: Behan, Dominic P.
, APPLICANT: Chalmers, Derek T.
, APPLICANT: Liaw, Chen W.
, TITLE OF INVENTION: No. 6555339-Endogenous
, TITLE OF INVENTION: Receptors
,

```

11

```

; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Cocuzzo, Anna L.
; REGISTRATION NUMBER: 42,452
; REFERENCE/DOCKET NUMBER: 19590P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 732-594-1273
; TELEFAX: 732-594-4720
; TELEX:
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 364 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-077-675A-16

Query Match 22.4%; Score 465.5; DB 3; Length 364;
Best Local Similarity 34.6%; Pred. No. 8.7e-31;
Matches 104; Conservative 65; Mismatches 107; Indels 25; Gaps 6;

Qy 40 VSAVALIFLVGNLLVCMVIVRHOTLPTNYLFLSLAVSDLLVLLGMPLEIYEMW 99
Db 45 VTATCVALFVVGISGNLLTMLVSRFRELRTTNLYLSSMAFSDLLIFLC-MPLDLVRLW 103
Qy 100 HNYFLEPGVGCYKFTALFETVCFASILSVTTVSVERVVAIVHPFRKLESTRRALRIL 159
Db 104 QYRPWNGDGLCKLFQFVSECTYATLITLVSRYFAICFPRAKVVVTKGRVKLVI 163
Qy 160 SLVMSFSVVFSLPNTSIHGKIFQHPNGSSVPGSATCTVTK-----PMVYNLII 209
Db 164 LVIAVAFCSAGPIFLVGVGHE---NGTDPDNECRATEFAVRSGLLTVMVWV 215
Qy 210 QATSELYFLPMTLISVLYLMGLRLKRDSELEANKVAVNTHRPSRKSVTKMLFVLVLF 269
Db 216 ---SSVFFFLPVFCLTVLYSLIGRKLWRRRGDAA--VGASLRDQNHKQTVKMLAVVFAF 270
Qy 270 AICWTPHVDRLFFS-FVEEWTESIAAVFNLIHVVGFFVYLLSSAVNPILYNLLSRFR 328
Db 271 ILCLMPFHVGRYLFKSFEPSGLEIAQISQYCNLVSEVFLYLSAAINPILYNIMSKRYR 330
Qy 329 A 329
Db 331 A 331

RESULT 5
US-09-077-674-16
; Sequence 16, Application US/09077674
; Patent No. 6531314
; GENERAL INFORMATION:
; APPLICANT: Arena, Joseph P.
; APPLICANT: Cully, Doris F.
; APPLICANT: Feighner, Scott D.
; APPLICANT: Howard, Andrew D.
; APPLICANT: Liberator, Paul A.
; APPLICANT: Schaeffer, James M.
; APPLICANT: Van Der Ploeg, Leonardus
; TITLE OF INVENTION: GROWTH HORMONE SECRETAGOGUE RECEPTOR FAMILY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.
; CITY: Rahway
; STATE: NJ
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS

; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Cocuzzo, Anna L.
; REGISTRATION NUMBER: 42,452
; REFERENCE/DOCKET NUMBER: 19590P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 732-594-1273
; TELEFAX: 732-594-4720
; TELEX:
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 364 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-077-675A-16

Query Match 22.4%; Score 465.5; DB 3; Length 364;
Best Local Similarity 34.6%; Pred. No. 8.7e-31;
Matches 104; Conservative 65; Mismatches 107; Indels 25; Gaps 6;

Qy 40 VSAVALIFLVGNLLVCMVIVRHOTLPTNYLFLSLAVSDLLVLLGMPLEIYEMW 99
Db 45 VTATCVALFVVGISGNLLTMLVSRFRELRTTNLYLSSMAFSDLLIFLC-MPLDLVRLW 103
Qy 100 HNYFLEPGVGCYKFTALFETVCFASILSVTTVSVERVVAIVHPFRKLESTRRALRIL 159
Db 104 QYRPWNGDGLCKLFQFVSECTYATLITLVSRYFAICFPRAKVVVTKGRVKLVI 163
Qy 160 SLVMSFSVVFSLPNTSIHGKIFQHPNGSSVPGSATCTVTK-----PMVYNLII 209
Db 164 LVIAVAFCSAGPIFLVGVGHE---NGTDPDNECRATEFAVRSGLLTVMVWV 215
Qy 210 QATSELYFLPMTLISVLYLMGLRLKRDSELEANKVAVNTHRPSRKSVTKMLFVLVLF 269
Db 216 ---SSVFFFLPVFCLTVLYSLIGRKLWRRRGDAA--VGASLRDQNHKQTVKMLAVVFAF 270
Qy 270 AICWTPHVDRLFFS-FVEEWTESIAAVFNLIHVVGFFVYLLSSAVNPILYNLLSRFR 328
Db 271 ILCLMPFHVGRYLFKSFEPSGLEIAQISQYCNLVSEVFLYLSAAINPILYNIMSKRYR 330
Qy 329 A 329
Db 331 A 331

RESULT 6
US-09-077-675A-3
; Sequence 3, Application US/09077675A
; Patent No. 6242199
; GENERAL INFORMATION:
; APPLICANT: Pai, Lee-Yuh
; APPLICANT: Feighner, Scott C.
; APPLICANT: Howard, Andrew D.
; APPLICANT: Pong, Sheng-Shung
; APPLICANT: Van Der Ploeg, Leonardus H.T.
; TITLE OF INVENTION: RECEPTOR ASSAY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.
; CITY: Rahway
; STATE: NJ
; COUNTRY: USA
; ZIP: 07065-0900
```



APPLICANT: Arena, Joseph P.  
 APPLICANT: Cully, Doris F.  
 APPLICANT: Feighner, Scott D.  
 APPLICANT: Howard, Andrew D.  
 APPLICANT: Liberator, Paul A.  
 APPLICANT: Schaeffer, James M.  
 APPLICANT: Van Der Ploeg, Leonardus  
 TITLE OF INVENTION: GROWTH HORMONE SECRETAGOGUE RECEPTOR FAMILY  
 NUMBER OF SEQUENCES: 16  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Merck & Co., Inc.  
 STREET: P.O. Box 2000, 126 E. Lincoln Ave.  
 CITY: Rahway  
 STATE: NJ  
 COUNTRY: USA  
 ZIP: 07065-0900  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FastSEQ for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/077,574  
 FILING DATE: 3-JUN-1998  
 CLASSIFICATION: 536  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER:  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Cocuzzo, Anna L.  
 REGISTRATION NUMBER: 42,452  
 REFERENCE/DOCKET NUMBER: 19589P  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 732-594-1273  
 TELEFAX: 732-594-4720  
 TELEX:  
 INFORMATION FOR SEQ ID NO: 8:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 361 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 PS-09-077-674-8

|                       |        |                                                               |          |            |      |        |          |    |
|-----------------------|--------|---------------------------------------------------------------|----------|------------|------|--------|----------|----|
| Query Match           | 22.3%; | Score                                                         | 463.5;   | DB         | 4;   | Length | 361;     |    |
| Best Local Similarity | 34.9%; | Pred. No.                                                     | 1.3e-30; |            |      |        |          |    |
| Matches               | 106;   | Conservative                                                  | 66;      | Mismatches | 107; | Indels | 25; Gaps | 7; |
| QY                    | 40     | VSVAYALIELVGMGNLLVCMVIVRHQTIKTPNYVYLSFASVSDLLVLLGMPLEIYEMW    | 99       |            |      |        |          |    |
| Db                    | 41     | VTATCVALEFVGIAGNLLTMLVVSRELRUHTTNLLSSMAFSDDLIFIFC-MPLDILVRLW  | 99       |            |      |        |          |    |
| QY                    | 100    | HNYPEFLFGVGVYFKTALFETVCFASITLSVTVTSVSVRYAIVHPFRAKLESTRRRRLRIL | 159      |            |      |        |          |    |
| Db                    | 100    | QYRPWNFGDLLCKLFQVSESCITYATVLTITALSVERYFAICFPLRAKVVVTKGRVKLVI  | 159      |            |      |        |          |    |
| QY                    | 160    | SLWSESVSFSLPNTSIHGIKQHPNGSSVPGSATC-----TVTKPMWVYNLII          | 209      |            |      |        |          |    |
| Db                    | 160    | FWIMAVAFCSAGIFVLVGVEHE---NGTDPMDTNECRPTTEFAVRSGLLTVMVWV-----  | 211      |            |      |        |          |    |
| QY                    | 210    | QATSFELYILPMTLISVLVYLLMGLRLKRDSELEANKVAVNIHRPSKSVTKMLFVLVLVF  | 269      |            |      |        |          |    |
| Db                    | 212    | ---SSIFFELPVECLTVLXSLGRKLWRRRGDA-VVGASLRDQNIKQTVKMLAVVVFAP    | 267      |            |      |        |          |    |
| QY                    | 270    | AICWTFPHVDRLFRS-FVBEWTESLAAFNLIHVSGVFYFLSSAVNPITYNLLSRFR-     | 327      |            |      |        |          |    |
| Db                    | 268    | ILCWLPFHVGRVLFKSPFGSLIEIAQISQVCNLVSFVLVYLSAAINPILYNIMSKYRV    | 327      |            |      |        |          |    |
| QY                    | 328    | AAFR 331                                                      |          |            |      |        |          |    |
| Db                    | 328    | AVFR 331                                                      |          |            |      |        |          |    |

RESULT 9  
US-09-077-674-8  
; Sequence 8, Application US/09077674  
; Patent No. 6531314  
; GENERAL INFORMATION:



Db 217 ---SSIFFFLPVCLTVLYSLIGRKLWRRRGDA-VVGASLRDQNHKQTVKMLAVVVVAF 272  
Qy 270 AICWTPHVDRLFFS-FVEEWTESLAAVFNLIHVSVGVFFYLSAVNPILYINLSSRRFR- 327  
Db 273 ILCLPFPVHGRLYFSKSFEPGSLIAQISQYCNLVSFLYLSAAINPILYNIMSKRYV 332  
Qy 328 AAFR 331  
Db 333 AVFR 336

RESULT 12  
US-09-170-496D-88  
Sequence 88, Application US/09170496D  
Patent No. 655339  
GENERAL INFORMATION:  
APPLICANT: Behan, Dominic P.  
APPLICANT: Chalmers, Derek T.  
APPLICANT: Liaw, Chen W.  
TITLE OF INVENTION: No. 655339-Endogenous, Constitutively Activated Human G Protein-  
FILE REFERENCE: AREN-0040  
CURRENT APPLICATION NUMBER: US/09/170.496D  
CURRENT FILING DATE: 1998-10-13  
NUMBER OF SEQ ID NOS: 294  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 88  
LENGTH: 366  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-170-496D-88

Query Match 22.3%; Score 463.5; DB 4; Length 366;  
Best Local Similarity 34.9%; Pred. No. 1.3e-30;  
Matches 106; Conservative 66; Mismatches 107; Indels 25; Gaps 7;  
Qy 40 VSVAYALIFLVGMNLLVCMVIVRHQTLKPTNYLYFLSVAVDLLVLLGMPLEIYEMW 99  
Db 46 VTATCVAFVVGVIAGNLLTMLVSVRFELRTTNLYLSSMAFSDLLIFLC-MPLDLVRLW 104  
Qy 100 HNYPLFGPGVCYKFTALFETVCFASILSVTVSVRYVAIVHPFRKLESTRRALRIL 159  
Db 105 QYRPWNEGDLKLFQVSECTYATLTITALSVERYFAICFPLRAKVVTGKRVKLV 164  
Qy 160 SLVMSFVSFLPNTSIHGKFOHPNGSSVPGSATC-----TVTKPMVYNYLI 209  
Db 165 FVIWAVAFCSAGPIFLVGVGHE---NGDPWDTNECRPTFEFAVRSGLLTVVWV 216  
Qy 210 QATSFLEYILPMTLISVLYLMGLRKRDESLEANKVAVNIHRPSRKSVTKMLFVLVLF 269  
Db 217 ---SSIFFFLPVCLTVLYSLIGRKLWRRRGDA-VVGASLRDQNHKQTVKMLAVVVVAF 272  
Qy 270 AICWTPHVDRLFFS-FVEEWTESLAAVFNLIHVSVGVFFYLSAVNPILYINLSSRRFR- 327  
Db 273 ILCLPFPVHGRLYFSKSFEPGSLIAQISQYCNLVSFLYLSAAINPILYNIMSKRYV 332  
Qy 328 AAFR 331  
Db 333 AVFR 336

RESULT 13  
US-09-170-496D-210  
Sequence 210, Application US/09170496D  
Patent No. 655339  
GENERAL INFORMATION:  
APPLICANT: Behan, Dominic P.  
APPLICANT: Chalmers, Derek T.  
APPLICANT: Liaw, Chen W.  
TITLE OF INVENTION: No. 655339-Endogenous, Constitutively Activated Human G Protein-  
FILE REFERENCE: AREN-0040  
CURRENT APPLICATION NUMBER: US/09/170.496D

Query Match 22.3%; Score 462.5; DB 4; Length 366;  
Best Local Similarity 34.9%; Pred. No. 1.5e-30;  
Matches 106; Conservative 66; Mismatches 107; Indels 25; Gaps 7;  
Qy 40 VSVAYALIFLVGMNLLVCMVIVRHQTLKPTNYLYFLSVAVDLLVLLGMPLEIYEMW 99  
Db 46 VTATCVAFVVGVIAGNLLTMLVSVRFELRTTNLYLSSMAFSDLLIFLC-MPLDLVRLW 104  
Qy 100 HNYPLFGPGVCYKFTALFETVCFASILSVTVSVRYVAIVHPFRKLESTRRALRIL 159  
Db 105 QYRPWNEGDLKLFQVSECTYATLTITALSVERYFAICFPLRAKVVTGKRVKLV 164  
Qy 160 SLVMSFVSFLPNTSIHGKFOHPNGSSVPGSATC-----TVTKPMVYNYLI 209  
Db 165 FVIWAVAFCSAGPIFLVGVGHE---NGDPWDTNECRPTFEFAVRSGLLTVVWV 216  
Qy 210 QATSFLEYILPMTLISVLYLMGLRKRDESLEANKVAVNIHRPSRKSVTKMLFVLVLF 269  
Db 217 ---SSIFFFLPVCLTVLYSLIGRKLWRRRGDA-VVGASLRDQNHKQTVKMLAVVVVAF 272  
Qy 270 AICWTPHVDRLFFS-FVEEWTESLAAVFNLIHVSVGVFFYLSAVNPILYINLSSRRFR- 327  
Db 273 ILCLPFPVHGRLYFSKSFEPGSLIAQISQYCNLVSFLYLSAAINPILYNIMSKRYV 332  
Qy 328 AAFR 331  
Db 333 AVFR 336

RESULT 14  
US-08-858-876A-2  
Sequence 2, Application US/08858876A  
Patent No. 6022856  
GENERAL INFORMATION:  
APPLICANT: Daniel CAPUT  
APPLICANT: Pascale CHALON  
APPLICANT: Pascual FERRARA  
APPLICANT: Vita NATALIO  
TITLE OF INVENTION: Type 2 Neurotensin Receptor  
TITLE OF INVENTION: (HNT-R2)  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Jacobson, Price, Holman & Stern, PLLC  
STREET: 400 Seventh Street  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20004  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
CURRENT APPLICATION DATA: US/08/858.876A  
APPLICATION NUMBER: US/08/858.876A  
FILING DATE: 19-SEP-1997  
CLASSIFICATION: 536  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: PCT/FR 9723204  
FILING DATE: 17-MAR-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Player, William E.  
REGISTRATION NUMBER: 31,049  
INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:  
LENGTH: 410 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-858-876A-2

Query Match 21.1%; Score 437; DB 3; Length 410;  
Best Local Similarity 30.2%; Pred. No. 2.2e-28;  
Matches 108; Conservative 73; Mismatches 123; Indels 54; Gaps 11;  
QY 44 YALIFLVGMGNLLVCMVIRHQT-LKT-PTNYLFSLAVIDLLVLLGMPLEIYE-MWHN 101  
DB 39 YALIWALGAAGNALSVHVVKARAGRRLRHVLSLALAGLLLVGVPVELYSFVWFH 98  
QY 102 YPFLGPGVC---YFKTALFETVCFASILSVTVSVRYVAIVHPFRKLESTRRLRI 158  
DB 99 YPWVFGDUGCRGYF---VHELCAVATVLSVAGLSAERCCLAVCQPLRARSLLTPRTRWL 155  
QY 159 LSLVMSFSVVSFLPNTSIHGKIFQ-HFNGSSVPGSATCTVTKPMVYVNLIIQATSFIFY 217  
DB 156 VALSNAASLGALPMAVINGOKHELETADGEPEPASRVCTVLSRTALQVFIQVNVLYSF 215  
QY 218 ILPMTLISVL-----YYLMG-----LRLKRDESL-----EA 243  
DB 216 VLPLALTAPLNGVTVSHLLALCSQVPSTPGSSTPSRLLELSEGLLSFIYMKKTFIQG 275  
QY 244 NKVAVNIHRPSRK-----SVTKMLFVLVLFVFAICHTPFHVDRLFFSFV---EWTESLAAY 296  
DB 276 GQVSLVRHKDVRIRSLQRSQVLRVAVVYVICMLPYHARMLCYVPPDDAWTDPLYNF 335  
QY 297 FNLIHVSGVFFYLSAVNPITLYNLSRRFAAFRNVSPTCKWCHPRHR-----PQGP 350  
DB 336 YHVFYMTNTLFYVSSAVTPLYNAVSSFRKLFLEAVSSLCGEHHPMKRLPPKQSP 393

RESULT 15  
US-09-472-880-2  
Sequence 2, Application US/09472880  
Patent No. 6274333  
GENERAL INFORMATION:  
APPLICANT: Daniel CAPUT  
Pascale CHALON  
Pascual FERRARA  
Vita NATALIO  
TITLE OF INVENTION: Type 2 Neurotensin Receptor  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Jacobson, Price, Holman & Stern, PLLC  
STREET: 400 Seventh Street  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20004  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/472,880  
FILING DATE: 28-Dec-1999  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/FR 9723204  
FILING DATE: 17-MAR-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Player, William E.  
REGISTRATION NUMBER: 31,049  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 410 amino acids

TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-09-472-880-2  
Query Match 21.1%; Score 437; DB 3; Length 410;  
Best Local Similarity 30.2%; Pred. No. 2.2e-28;  
Matches 108; Conservative 73; Mismatches 123; Indels 54; Gaps 11;  
QY 44 YALIFLVGMGNLLVCMVIRHQT-LKT-PTNYLFSLAVIDLLVLLGMPLEIYE-MWHN 101  
DB 39 YALIWALGAAGNALSVHVVKARAGRRLRHVLSLALAGLLLVGVPVELYSFVWFH 98  
QY 102 YPFLGPGVC---YFKTALFETVCFASILSVTVSVRYVAIVHPFRKLESTRRLRI 158  
DB 99 YPWVFGDUGCRGYF---VHELCAVATVLSVAGLSAERCCLAVCQPLRARSLLTPRTRWL 155  
QY 159 LSLVMSFSVVSFLPNTSIHGKIFQ-HFNGSSVPGSATCTVTKPMVYVNLIIQATSFIFY 217  
DB 156 VALSNAASLGALPMAVINGOKHELETADGEPEPASRVCTVLSRTALQVFIQVNVLYSF 215  
QY 218 ILPMTLISVL-----YYLMG-----LRLKRDESL-----EA 243  
DB 216 VLPLALTAPLNGVTVSHLLALCSQVPSTPGSSTPSRLLELSEGLLSFIYMKKTFIQG 275  
QY 244 NKVAVNIHRPSRK-----SVTKMLFVLVLFVFAICHTPFHVDRLFFSFV---EWTESLAAY 296  
DB 276 GQVSLVRHKDVRIRSLQRSQVLRVAVVYVICMLPYHARMLCYVPPDDAWTDPLYNF 335  
QY 297 FNLIHVSGVFFYLSAVNPITLYNLSRRFAAFRNVSPTCKWCHPRHR-----PQGP 350  
DB 336 YHVFYMTNTLFYVSSAVTPLYNAVSSFRKLFLEAVSSLCGEHHPMKRLPPKQSP 393

Search completed: August 22, 2003, 19:08:47  
Job time : 15.6296 secs